



May 18, 2006

State of Utah  
Division of Oil, Gas & Mining  
Attn: Diana Whitney  
1594 West North Temple - Suite 1210  
P.O. Box 145801  
Salt Lake City, Utah 84114-5801

RE: Applications for Permit to Drill: Federal 5-19-9-16, 9-22-9-16, 3-23-9-16, 4-23-9-16, 11-23-9-16, 12-23-9-16, 13-23-9-16, 14-23-9-16, 15-23-9-16, and 16-23-9-16.

Dear Diana:

Enclosed find APD's on the above referenced wells. The proposed Federal 11-23-9-16 is an Exception Location. Our Land Department will send you the required Exception Location Letter. If you have any questions, feel free to give either Shon Mckinnon or myself a call.

Sincerely,

Mandie Crozier  
Regulatory Specialist

mc  
enclosures

**RECEIVED**

**MAY 19 2006**

**DIV. OF OIL, GAS & MINING**

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

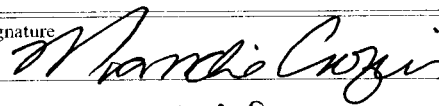

FORM APPROVED  
OMB No. 1004-0136  
Expires January 31, 2004

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. UTU-74392
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name N/A
2. Name of Operator Newfield Production Company		7. If Unit or CA Agreement, Name and No. N/A
3a. Address Route #3 Box 3630, Myton UT 84052	3b. Phone No. (include area code) (435) 646-3721	8. Lease Name and Well No. Federal 13-23-9-16
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface SW/SW 612' FSL 466' FWL 577350 X 40-010795 At proposed prod. zone 4429139 Y -110-093722		9. API Well No. 43-013-33180
10. Field and Pool, or Exploratory Monument Butte		11. Sec., T., R., M., or Blk. and Survey or Area SW/SW Sec. 23, T9S R16E
12. Distance in miles and direction from nearest town or post office* Approximatley 19.5 miles southwest of Myton, Utah		12. County or Parish Duchesne
13. State UT		
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) Approx. 612' f/lse, NA' f/unit	16. No. of Acres in lease 2080.00	17. Spacing Unit dedicated to this well 40 Acres
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. Approx. 2710'	19. Proposed Depth 5848'	20. BLM/BIA Bond No. on file UTB000192
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 5751' GL	22. Approximate date work will start* 3rd Quarter 2006	23. Estimated duration Approximately seven (7) days from spud to rig release.

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, shall be attached to this form:

- |   |  |
|---|--|
| 1. Well plat certified by a registered surveyor.  | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).    |
| 2. A Drilling Plan.   | 5. Operator certification.   |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the authorized officer. |

25. Signature 	Name (Printed/Typed) Mandie Crozier	Date 5/18/06
Title Regulatory Specialist		
Approved by (Signature) 	Name (Printed/Typed) BRADLEY G. HILL ENVIRONMENTAL MANAGER	Date 05-25-06
Title		

Application approval does not warrant or certify the the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*(Instructions on reverse)

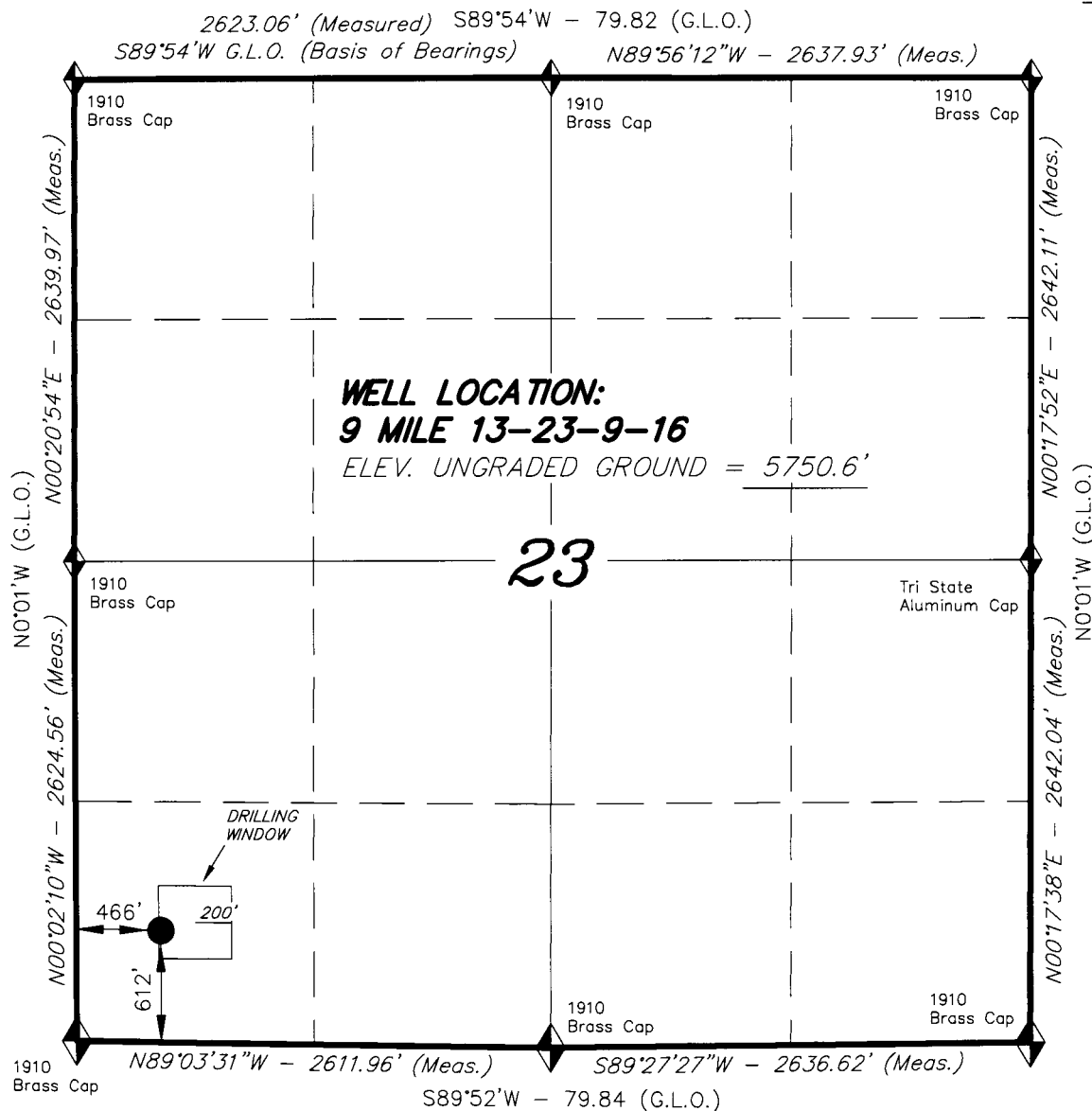
Federal Approval of this  
Action is Necessary

RECEIVED  
MAY 19 2006

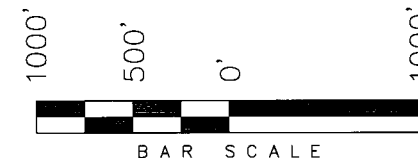
DIV. OF OIL, GAS & MINING

# T9S, R16E, S.L.B.&M.

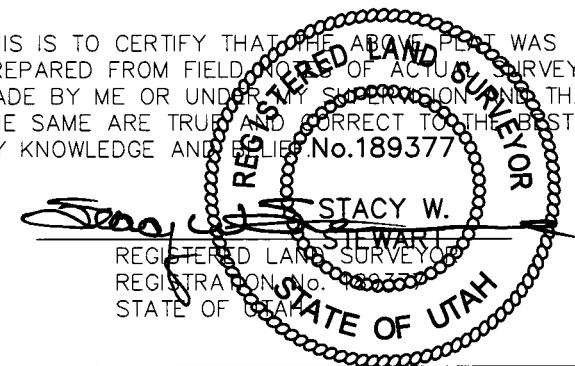
NEWFIELD PRODUCTION COMPANY



WELL LOCATION, 9 MILE 13-23-9-16,  
LOCATED AS SHOWN IN THE SW 1/4 SW  
1/4 OF SECTION 23, T9S, R16E, S.L.B.&M.  
DUCHESNE COUNTY, UTAH.



THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS  
PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS  
MADE BY ME OR UNDER MY SUPERVISION AND THAT  
THE SAME ARE TRUE AND CORRECT TO THE BEST OF  
MY KNOWLEDGE AND BELIEF No.189377



◆ = SECTION CORNERS LOCATED

BASIS OF ELEV;  
U.S.G.S. 7-1/2 min QUAD (MYTON SE)

**9 MILE 13-23-9-16**  
(Surface Location) NAD 83  
LATITUDE = 40° 00' 38.80"  
LONGITUDE = 110° 05' 39.46"

## TRI STATE LAND SURVEYING & CONSULTING

180 NORTH VERNAL AVE. - VERNAL, UTAH 84078  
(435) 781-2501

DATE SURVEYED: 4-11-06	SURVEYED BY: C.M.
DATE DRAWN: 04-24-06	DRAWN BY: F.T.M.
REVISED:	SCALE: 1" = 1000'

**NEWFIELD PRODUCTION COMPANY  
FEDERAL #13-23-9-16  
SW/SW SECTION 23, T9S, R16E  
DUCHESNE COUNTY, UTAH**

**ONSHORE ORDER NO. 1**

**DRILLING PROGRAM**

**1. GEOLOGIC SURFACE FORMATION:**

Uinta formation of Upper Eocene Age

**2. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:**

Uinta	0' – 2153'
Green River	2153'
Wasatch	5848'

**3. ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERALS:**

Green River Formation 2153' – 5848' - Oil

**4. PROPOSED CASING PROGRAM**

Please refer to the Monument Butte Field Standard Operation Procedure (SOP).

**5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:**

Please refer to the Monument Butte Field SOP. See Exhibit "C".

**6. TYPE AND CHARACTERISTICS OF THE PROPOSED CIRCULATION MUDS:**

Please refer to the Monument Butte Field SOP.

**7. AUXILIARY SAFETY EQUIPMENT TO BE USED:**

Please refer to the Monument Butte Field SOP.

**8. TESTING, LOGGING AND CORING PROGRAMS:**

Please refer to the Monument Butte Field SOP.

**9. ANTICIPATED ABNORMAL PRESSURE OR TEMPERATURE:**

The anticipated maximum bottom hole pressure is 1800 psi. It is not anticipated that abnormal temperatures will be encountered.

**10. ANTICIPATED STARTING DATE AND DURATION OF THE OPERATIONS:**

Please refer to the Monument Butte Field SOP.

**NEWFIELD PRODUCTION COMPANY  
FEDERAL #13-23-9-16  
SW/SW SECTION 23, T9S, R16E  
DUCHESNE COUNTY, UTAH**

**ONSHORE ORDER NO. 1**

**MULTI-POINT SURFACE USE & OPERATIONS PLAN**

**1. EXISTING ROADS**

See attached Topographic Map "A"

To reach Newfield Production Company well location site Federal #13-23-9-16 located in the SW 1/4 SW 1/4 Section 23, T9S, R16E, Duchesne County, Utah:

Proceed southwesterly out of Myton, Utah along Highway 40 - 1.6 miles  $\pm$  to the junction of this highway and UT State Hwy 53; proceed southeasterly - 11.7 miles  $\pm$  to it's junction with an existing dirt road to the southwest; proceed southwesterly - 5.6 miles  $\pm$  to it's junction with the beginning of the proposed access road to the southeast; proceed southeasterly and then southwesterly along the proposed access road - 0.6 miles  $\pm$  to the proposed well location.

**2. PLANNED ACCESS ROAD**

See Topographic Map "B" for the location of the proposed access road.

**3. LOCATION OF EXISTING WELLS**

Refer to Exhibit "B".

**4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES**

All permanent surface equipment will be painted Carlsbad Canyon.  
Please refer to the Monument Butte Field Standard Operating Procedure (SOP).

**5. LOCATION AND TYPE OF WATER SUPPLY**

Please refer to the Monument Butte Field SOP. See Exhibit "A".

**6. SOURCE OF CONSTRUCTION MATERIALS**

Please refer to the Monument Butte Field SOP.

**7. METHODS FOR HANDLING WASTE DISPOSAL**

Please refer to the Monument Butte Field SOP.

**8. ANCILLARY FACILITIES**

Please refer to the Monument Butte Field SOP.

9. **WELL SITE LAYOUT**

See attached Location Layout Diagram.

10. **PLANS FOR RESTORATION OF SURFACE**

Please refer to the Monument Butte Field SOP.

11. **SURFACE OWNERSHIP** - Bureau Of Land Management (Proposed location and access roads leading to).

12. **OTHER ADDITIONAL INFORMATION**

The Archaeological Resource Survey and Paleontological Resource Survey for this area are attached. MOAC Report #05-270, 9/7/05. Paleontological Resource Survey prepared by, Wade E. Miller, 9/28/05. See attached report cover pages, Exhibit "D".

For the Federal #13-23-9-16 Newfield Production Company requests a 350' ROW be granted in Lease UTU-64379, a 1590' ROW be granted in Lease UTU-15855, and 1190' of disturbed area be granted in Lease UTU-74392 to allow for construction of the proposed access road. **Refer to Topographic Map "B"**. The proposed access road will be an 18' crown road (9' either side of the centerline) with drainage ditches along either side of the proposed road whether it is deemed necessary in order to handle any run-off from normal meteorological conditions that are prevalent to this area. The maximum grade will be less than 8%. **There will be a 36" culvert required along this access road.** There will be barrow ditches and turnouts as needed along this road. There are no fences encountered along this proposed road. There will be no new gates or cattle guards required. All construction material for this access road will be borrowed material accumulated during construction of the access road.

Newfield Production Company requests a 350' ROW be granted in Lease UTU-64379, a 1590' ROW be granted in Lease UTU-15855, and 1190' of disturbed area be granted in Lease UTU-74392 to allow for construction of the proposed gas lines. It is proposed that the ROW and disturbed area will be 50' wide to allow for construction of a 6" gas gathering line, and a 3" poly fuel gas line. Both lines will tie in to the existing pipeline infrastructure. **Refer to Topographic Map "C."** For a ROW plan of development, please refer to the Monument Butte Field SOP.

Newfield Production Company requests a 350' ROW be granted in Lease UTU-64379, a 1590' ROW be granted in Lease UTU-15855, and 1190' of disturbed area be granted in Lease UTU-74392 to allow for construction of the proposed water lines. It is proposed that the ROW and disturbed area will be 50' wide to allow for construction of a buried 3" steel water injection line and a buried 3" poly water return line. **Refer to Topographic Map "C."** For a ROW plan of development, please refer to the Monument Butte Field SOP.

**Water Disposal**

Immediately upon first production, all produced water will be confined to a steel storage tank. If the production water meets quality guidelines, it is transported to the Ashley, Monument Butte, Jonah, and Beluga water injection facilities by company or contract trucks. Subsequently, the produced water is injected into approved Class II wells to enhance Newfield's secondary recovery project.

Water not meeting quality criteria, is disposed at Newfield's Pariette #4 disposal well (Sec. 7, T9S R19E) or at State of Utah approved surface disposal facilities.

**Threatened, Endangered, And Other Sensitive Species**

None.

**Reserve Pit Liner**

A 12 mil liner with felt is required. Please refer to the Monument Butte Field SOP.

**Location and Reserve Pit Reclamation**

Please refer to the Monument Butte Field SOP.

The following seed mixture will be used on the topsoil stockpile, to the recontoured surface of the reserve pit, and for final reclamation: (All poundages are in pure live seed)

Western Wheatgrass	<i>Pascopyrum Smithii</i>	6 lbs/acre
Galletta Grass	<i>Hilaria Jamesii</i>	6 lbs/acre

**Details of the On-Site Inspection**

The proposed Federal #13-23-9-16 was on-sited on 3/22/06. The following were present; Shon Mckinnon (Newfeild Production), Nate West (Bureau of Land Management), and Brandon McDonald (Bureau of Landmanagement). Weather conditions were clear and ground cover was 100% open.

13. **LESSEE'S OR OPERATORS REPRESENTATIVE AND CERTIFICATION**

**Representative**

Name: Shon Mckinnon  
Address: Route #3 Box 3630  
Myton, UT 84052  
Telephone: (435) 646-3721

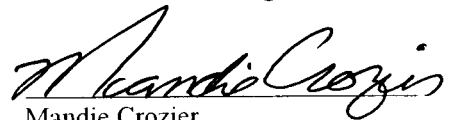
**Certification**

Please be advised that NEWFIELD PRODUCTION COMPANY is considered to be the operator of well #13-23-9-16 SW/SW Section 23, Township 9S, Range 16E: Lease UTU-74392 Duchesne County, Utah: and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by US Specialty Insurance #B001832.

I hereby certify that the proposed drillsite and access route have been inspected, and I am familiar with the conditions which currently exist; that the statements made in this plan are true and correct to the best of my knowledge; and that the work associated with the operations proposed here will be performed by Newfield Production Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

5/18/06

Date

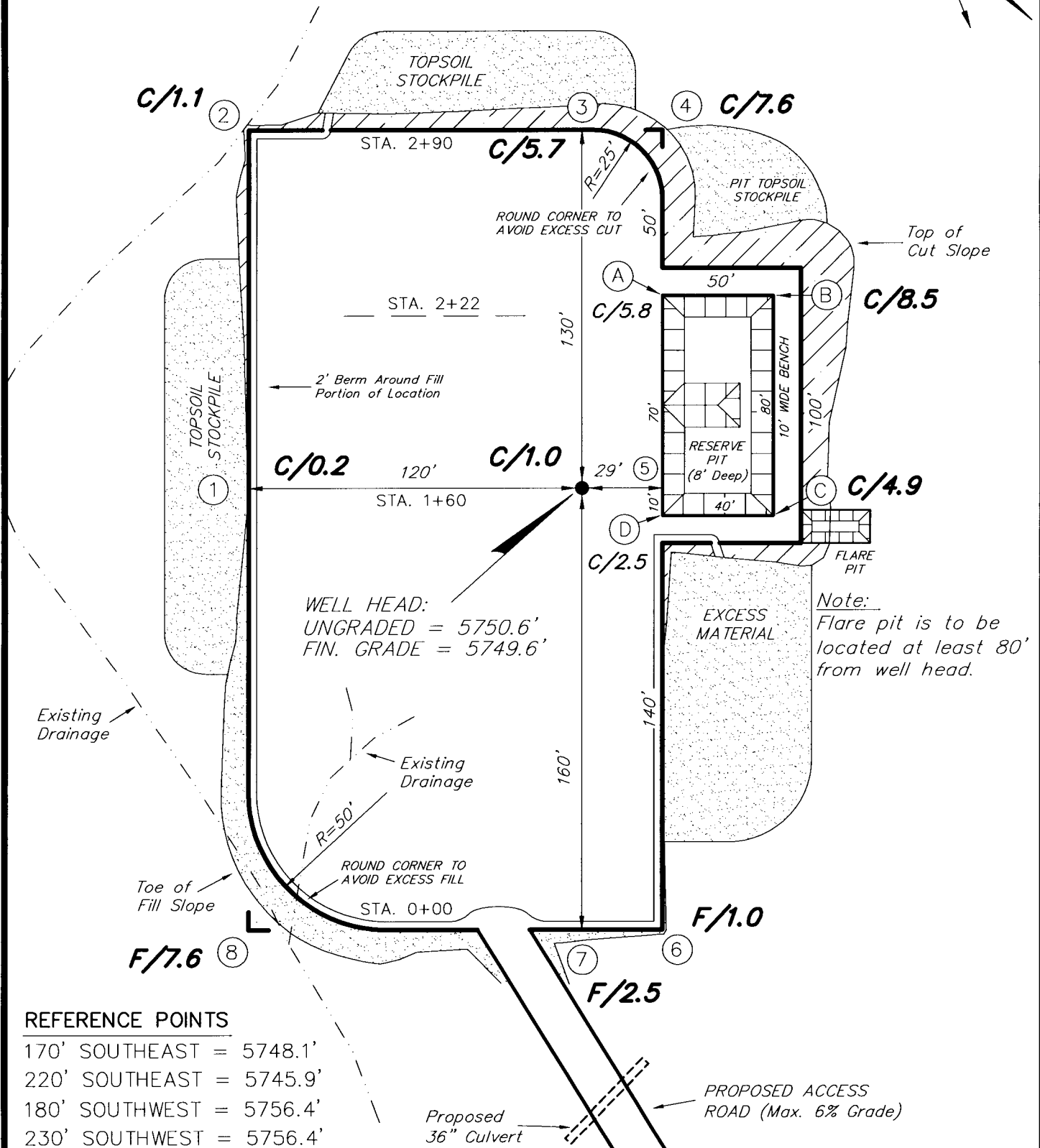
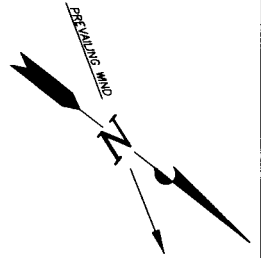


Mandie Crozier  
Regulatory Specialist  
Newfield Production Company

# NEWFIELD PRODUCTION COMPANY

9 MILE 13-23-9-16

Section 23, T9S, R16E, S.L.B.&M.



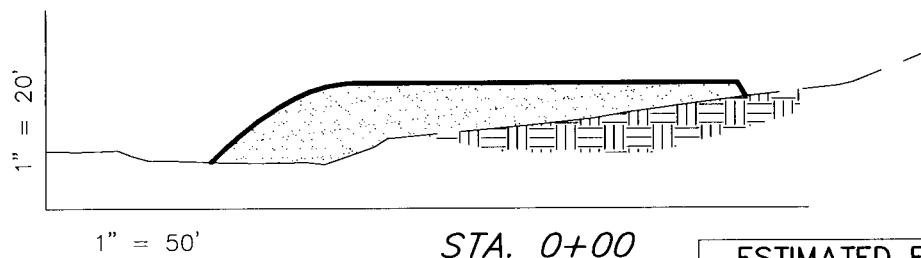
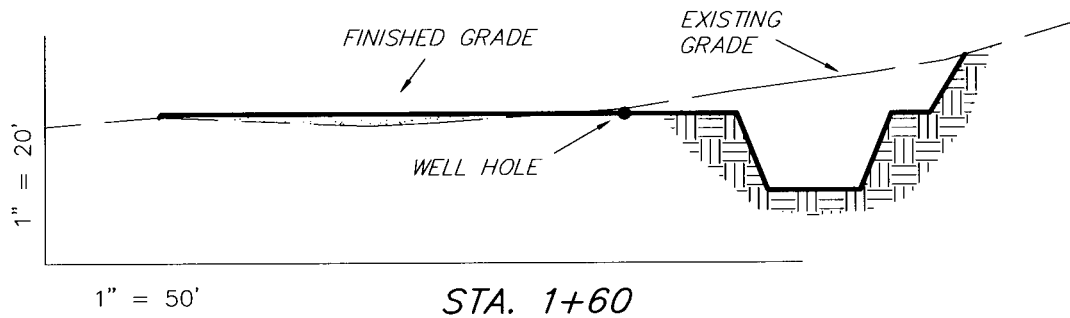
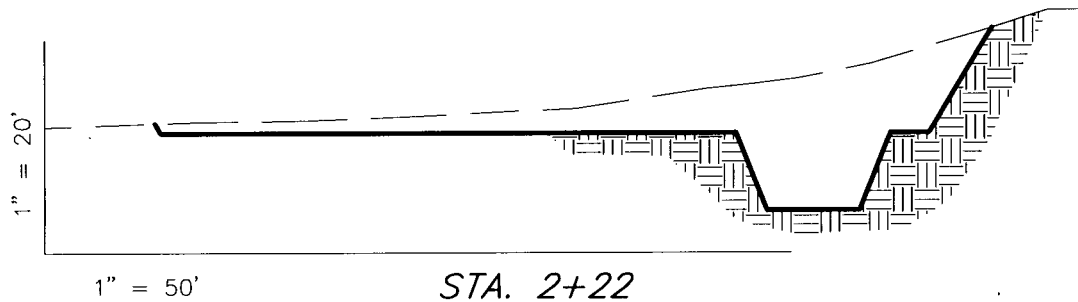
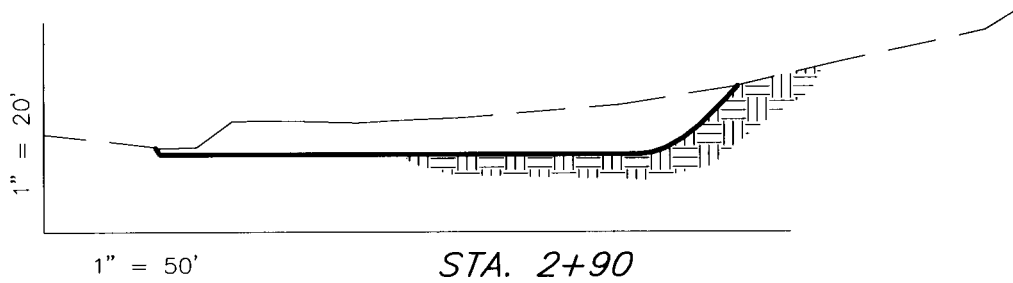
SURVEYED BY: C.M.	SCALE: 1" = 50'	<b>Tri State</b> Land Surveying, Inc. 180 NORTH VERNAL AVE. VERNAL, UTAH 84078 (435) 781-2501
DRAWN BY: F.T.M.	DATE: 04-24-06	



# NEW FIELD PRODUCTION COMPANY

## CROSS SECTIONS

9 MILE 13-23-9-16



NOTE:  
UNLESS OTHERWISE NOTED  
ALL CUT/FILL SLOPES ARE  
AT 1.5:1

### ESTIMATED EARTHWORK QUANTITIES (No Shrink or swell adjustments have been used) (Expressed in Cubic Yards)

ITEM	CUT	FILL	6" TOPSOIL	EXCESS
PAD	2,950	2,950	Topsoil is not included in Pad Cut	0
PIT	640	0		640
TOTALS	3,590	2,950	1,000	640

SURVEYED BY: C.M.

SCALE: 1" = 50'

DRAWN BY: F.T.M.

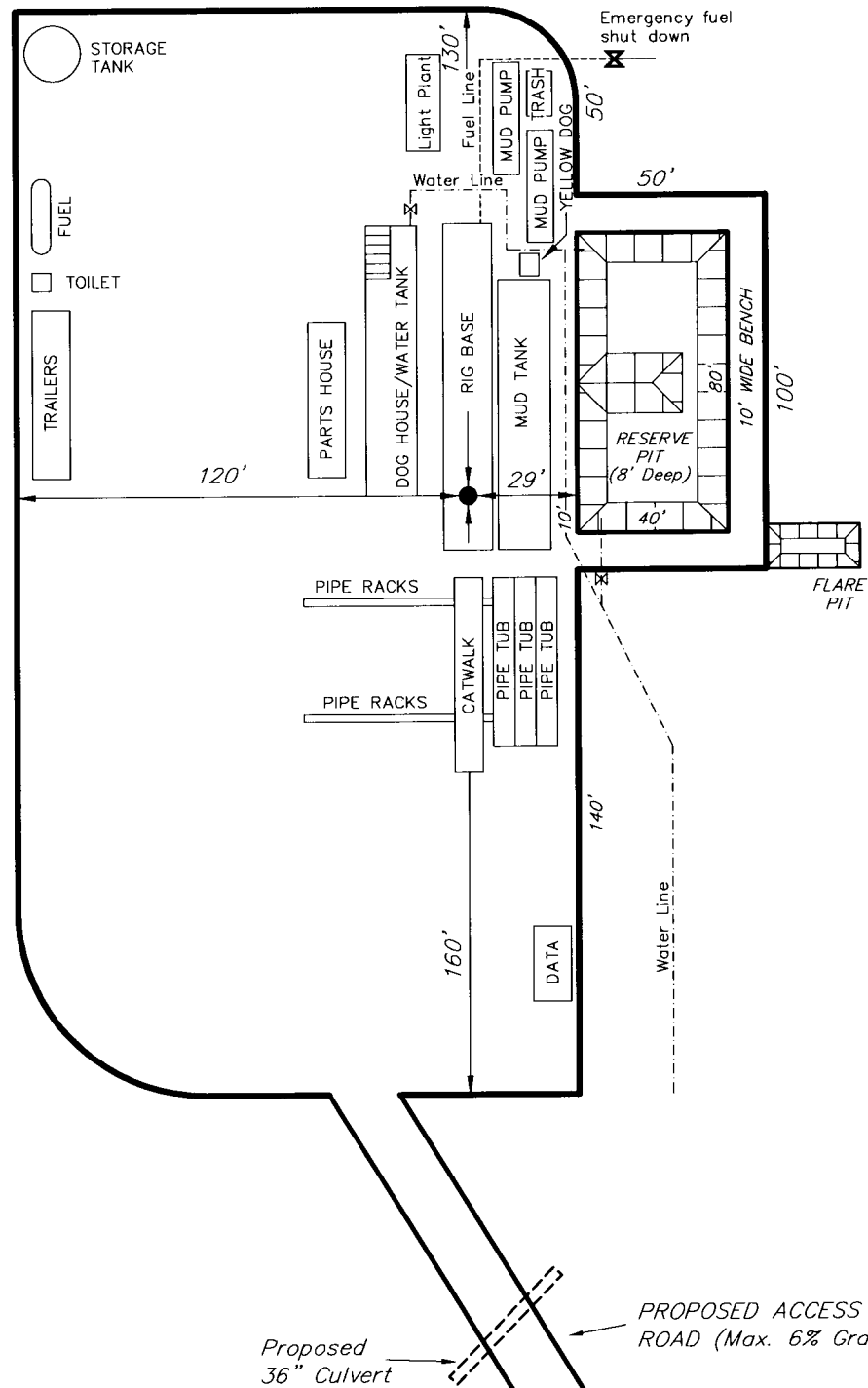
DATE: 04-24-06

**Tri State**  
Land Surveying, Inc.  
180 NORTH VERNAL AVE. VERNAL, UTAH 84078  
(435) 781-2501

# NEWFIELD PRODUCTION COMPANY

## TYPICAL RIG LAYOUT

### 9 MILE 13-23-9-16



SURVEYED BY: C.M.

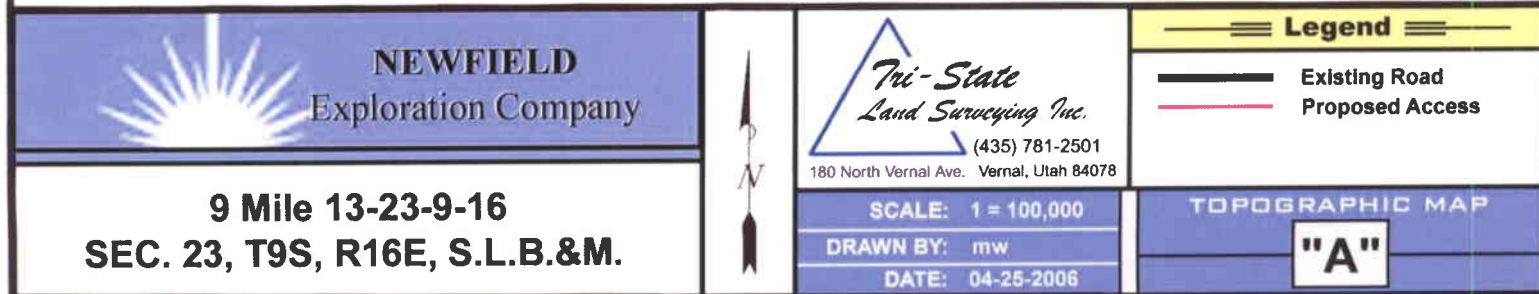
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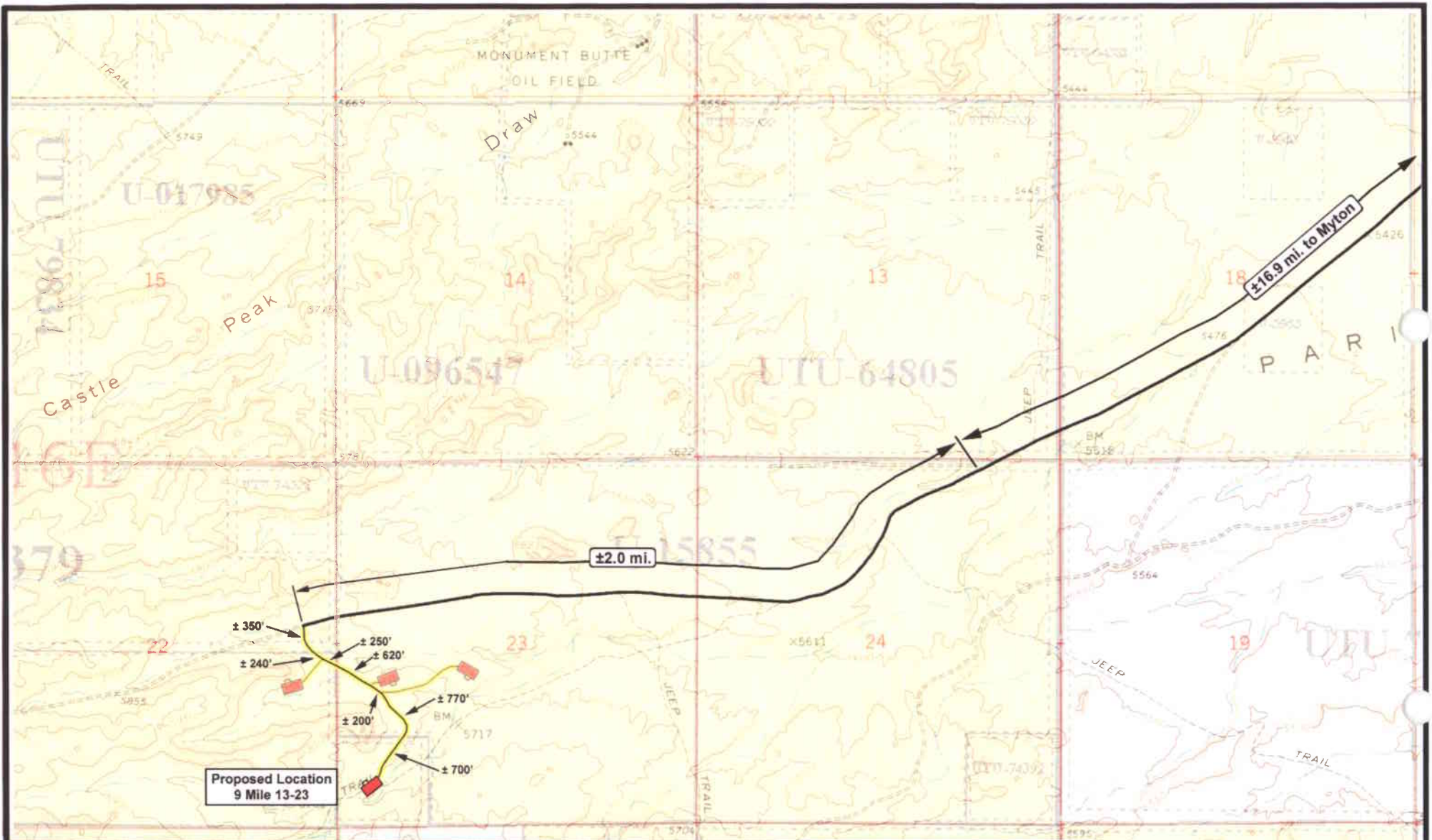
DATE: 04-24-06

**Tri State**  
Land Surveying, Inc.  
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

(435) 781-2501







**NEWFIELD**  
Exploration Company

**9 Mile 13-23-9-16**  
**SEC. 23, T9S, R16E, S.L.B.&M.**



**Tri-State**  
*Land Surveying Inc.*  
(435) 781-2501  
180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1" = 2,000'

DRAWN BY: mw

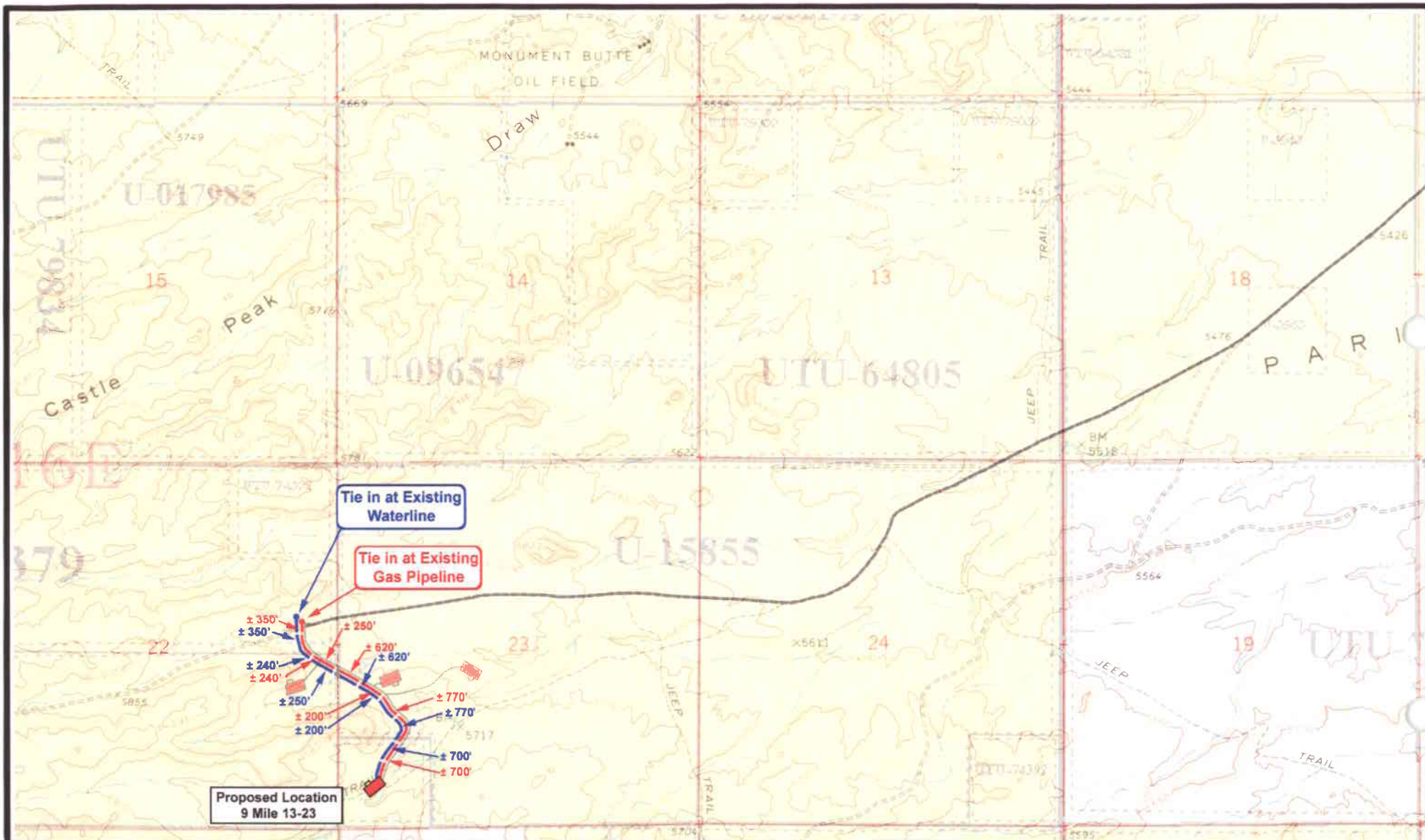
DATE: 4-25-2006


**Legend**

- Existing Road
- Proposed Access

TOPOGRAPHIC MAP

**"B"**





**NEWFIELD**  
Exploration Company

**9 Mile 13-23-9-16**  
**SEC. 23, T9S, R16E, S.L.B.&M.**



**Tri-State**  
Land Surveying Inc.  
(435) 781-2501  
180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1" = 2,000'

DRAWN BY: mw

DATE: 04-24-2006

**Legend**

— Roads

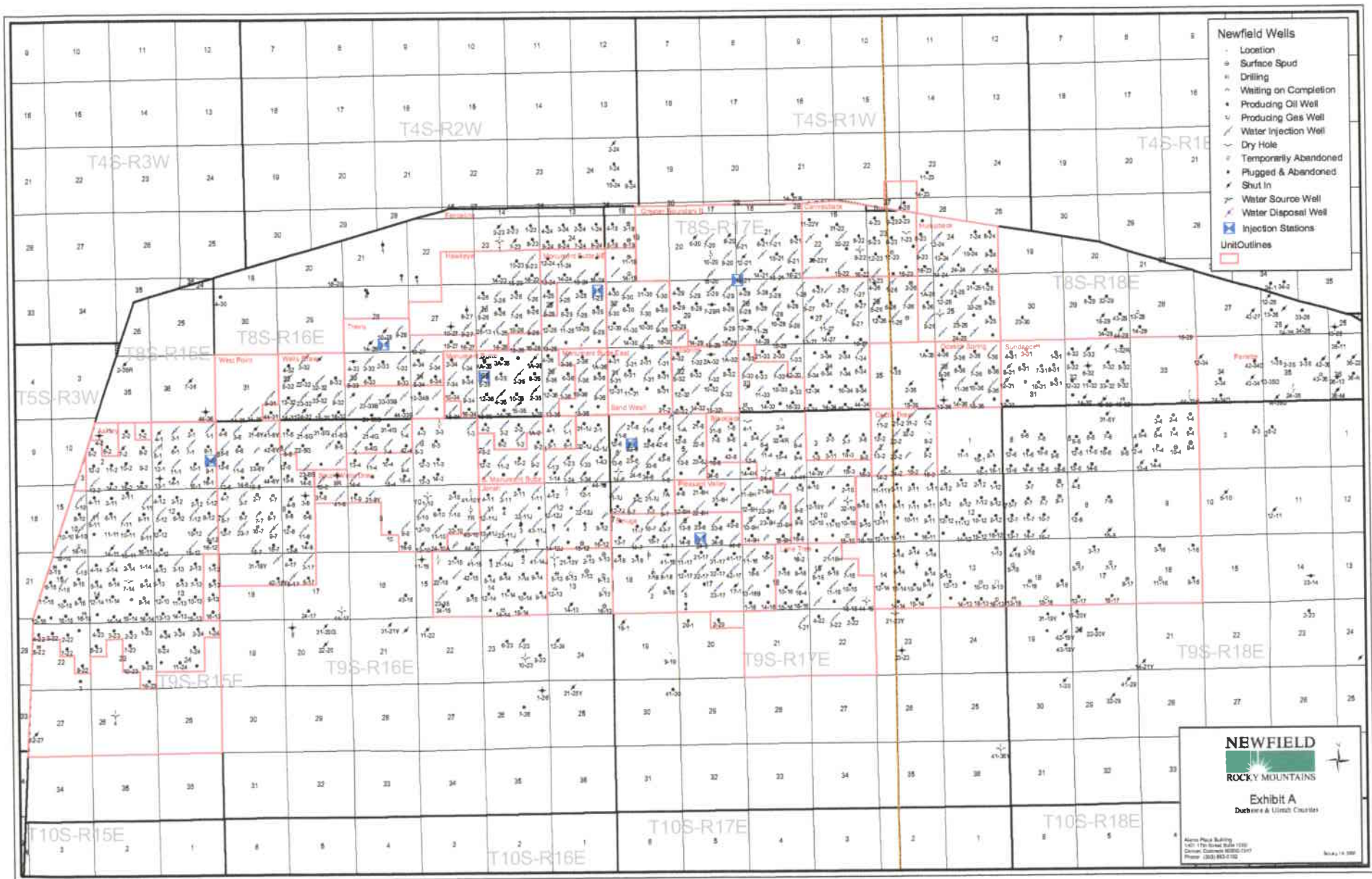
- - - Proposed Gas Line

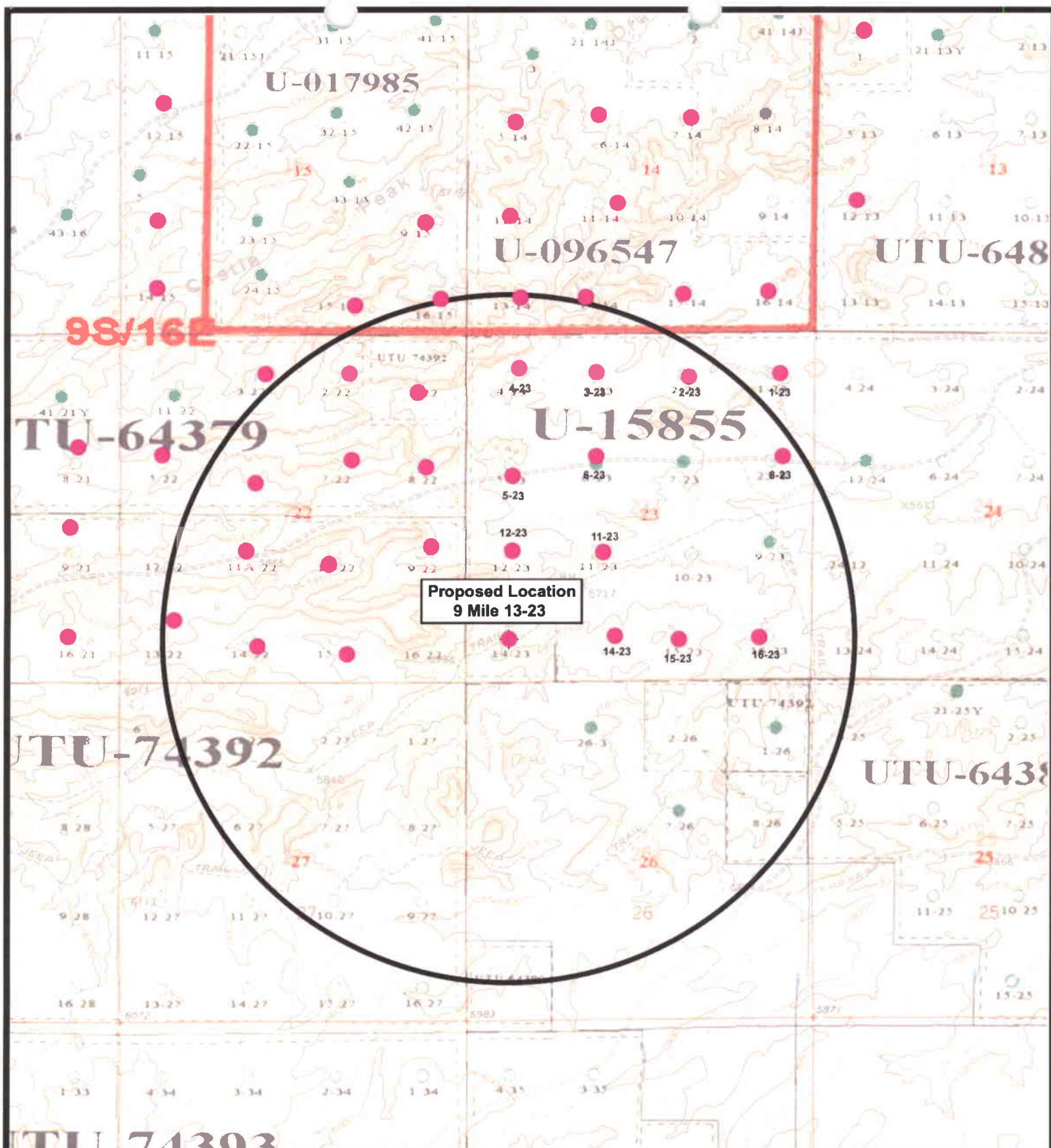
- - - Proposed Water Line




**TOPOGRAPHIC MAP**

**"C"**







 <p><b>NEWFIELD</b> Exploration Company</p>		 <p><b>Tri-State</b> Land Surveying Inc. (435) 781-2501 180 North Vernal Ave. Vernal, Utah 84078</p>	<p><b>Legend</b></p>
<p><b>9 Mile 13-23-9-16</b> <b>SEC. 23, T9S, R16E, S.L.B.&amp;M.</b></p>		<p>SCALE: 1" = 2,000' DRAWN BY: mw DATE: 05-01-2006</p>	<p>● Location ○ One-Mile Radius</p>
<p><b>Exhibit "B"</b></p>			

## 2-M SYSTEM

Blowout Prevention Equipment Systems

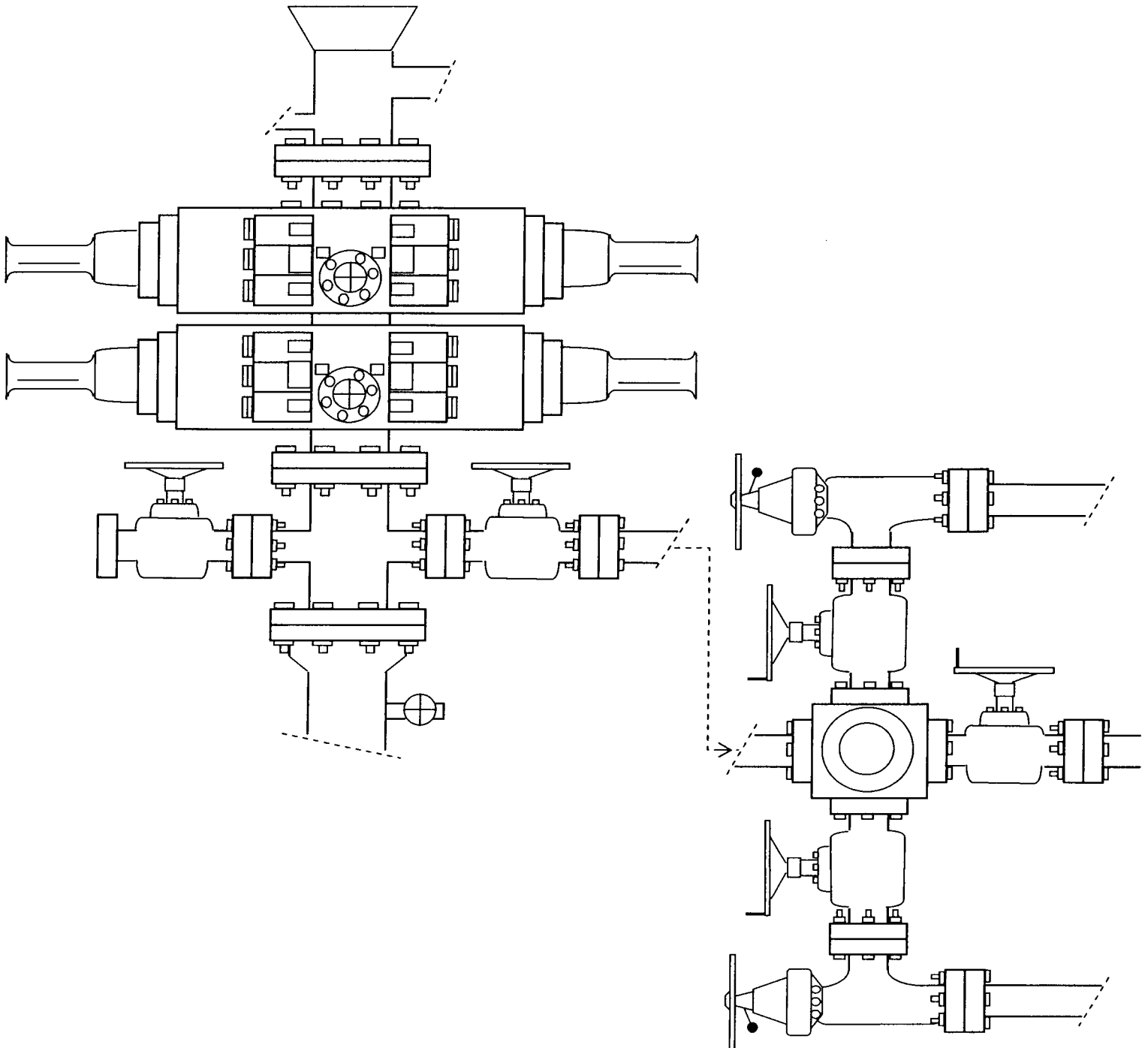


EXHIBIT C



Exhibit "D"

Page 1 of 2

CULTURAL RESOURCE INVENTORY OF  
NEWFIELD EXPLORATION'S BLOCK PARCEL  
IN TOWNSHIP 9S, RANGE 16E, SECTION 23 and 24,  
DUCHESNE COUNTY, UTAH

By:

Andre' Jendresen  
and  
Keith Montgomery

Prepared For:

Bureau of Land Management Vernal Field Office

Prepared Under Contract With:

Newfield Exploration Company  
Rt. 3 Box 3630  
Myton, UT 84052

Submitted By:

Keith R. Montgomery  
Montgomery Archaeological Consultants, Inc.  
P.O. Box 147  
Moab, Utah 84532

MOAC Report No. 05-270

September 7, 2005

United States Department of Interior (FLPMA)  
Permit No. 05-UT-60122

State of Utah Antiquities Project (Survey)  
Permit No. U-05-MQ-0831b

**NEWFIELD PRODUCTION COMPANY**

**PALEONTOLOGICAL FIELD SURVEY OF PROPOSED  
PRODUCTION DEVELOPMENT AREAS,  
DUCHESNE COUNTY, UTAH**

SW 1/4, SE 1/4, and SW 1/4, Section 9 [9,11,12,13 & 14-9-9-16]; Entire Section 22 (excluding NE 1/4, NE 1/4 & NW 1/4, NW 1/4) [2,3,5 through 16-9-9-16]; Entire Section 23 (excluding SE 1/4, NW 1/4, SW 1/4, NE 1/4, NE 1/4 & NW 1/4, SE 1/4) [1 through 5, 8, 11 through 16-9-9-16]; Entire Section 24 (excluding SW 1/4, NW 1/4) [1 through 4, 6 through 16-9-9-16] all in Township 9 South, Range 16 East

**REPORT OF SURVEY**

Prepared for:

**Newfield Production Company**

Prepared by:

Wade E. Miller  
Consulting Paleontologist  
September 28, 2005

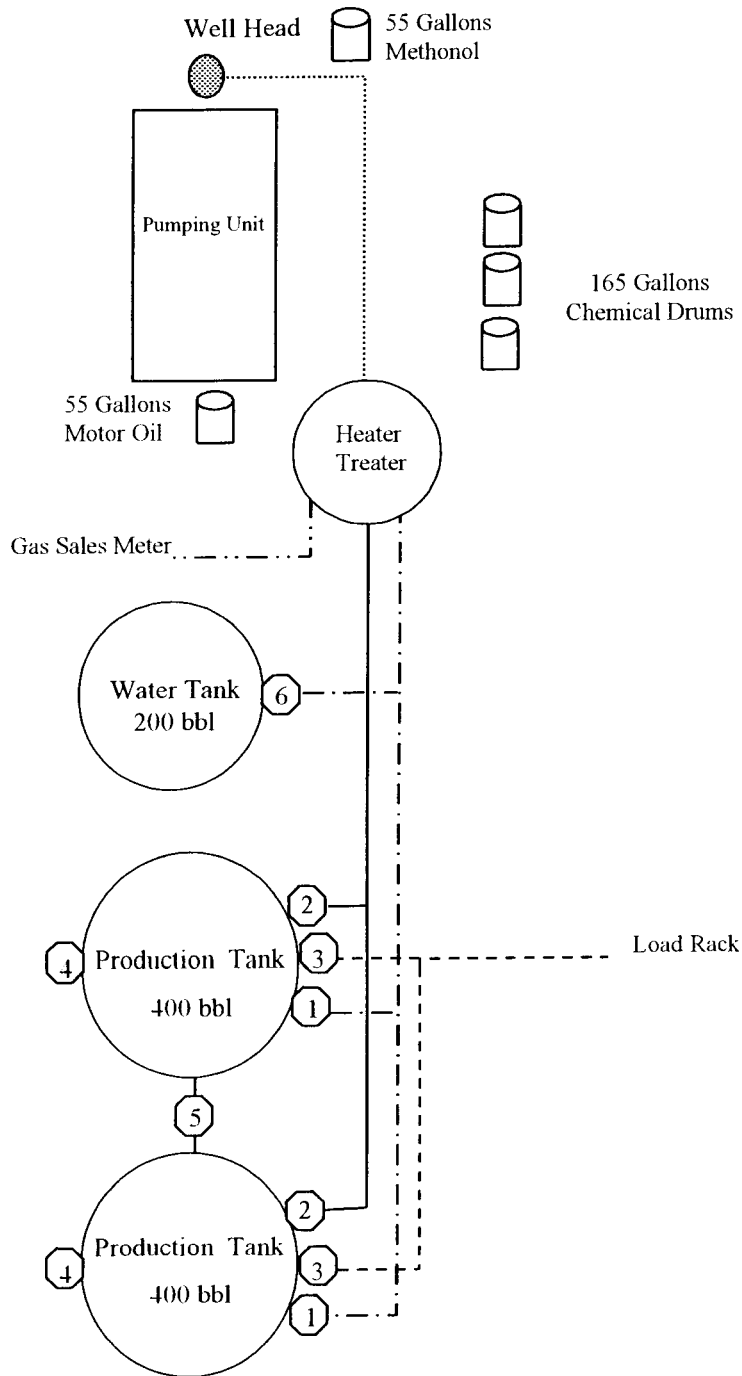
# Newfield Production Company Proposed Site Facility Diagram

Federal 13-23-9-16

SW/SW Sec. 23 T9S, 16E

Duchesne County, Utah

UTU-74392



## Legend

<b>Emulsion Line</b>	.....
<b>Load Rack</b>	-----
<b>Water Line</b>	- . . . .
<b>Gas Sales</b>	- . . . .
<b>Oil Line</b>	—————

## Production Phase:

- 1) Valves 1, 3, and 4 sealed closed
- 2) Valves 2, 5, and 6 sealed open

## Sales Phase:

- 1) Valves 1, 2, 4, 5, and 6 sealed closed
- 2) Valve 3 open

## Draining Phase:

- 1) Valves 1 and 6 open

Diked Section



**WORKSHEET**  
**APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 05/19/2006

API NO. ASSIGNED: 43-013-33180

WELL NAME: FEDERAL 13-23-9-16

OPERATOR: NEWFIELD PRODUCTION ( N2695 )

CONTACT: MANDIE CROZIER

PHONE NUMBER: 435-646-3721

PROPOSED LOCATION:

SWSW 23 090S 160E

SURFACE: 0612 FSL 0466 FWL

BOTTOM: 0612 FSL 0466 FWL

COUNTY: DUCHESNE

LATITUDE: 40.01080 LONGITUDE: -110.0937

UTM SURF EASTINGS: 577350 NORTHINGS: 4429139

FIELD NAME: MONUMENT BUTTE ( 105 )

INSPECT LOCATN BY: / /

Tech Review	Initials	Date
Engineering		
Geology		
Surface		

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU-74392

SURFACE OWNER: 1 - Federal

PROPOSED FORMATION: GRRV

COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

☒ Plat

☒ Bond: Fed[1] Ind[] Sta[] Fee[]  
(No. UTB000192 )

☒ Potash (Y/N)

☒ Oil Shale 190-5 (B) or 190-3 or 190-13

☒ Water Permit

(No. MUNICIPAL )

☒ RDCC Review (Y/N)

(Date: )

☒ Fee Surf Agreement (Y/N)

☒ Intent to Commingle (Y/N)

LOCATION AND SITING:

\_\_\_ R649-2-3.

Unit: \_\_\_

☒ R649-3-2. General

Siting: 460 From Qtr/Qtr & 920' Between Wells

\_\_\_ R649-3-3. Exception

\_\_\_ Drilling Unit

Board Cause No: \_\_\_

Eff Date: \_\_\_

Siting: \_\_\_

\_\_\_ R649-3-11. Directional Drill

COMMENTS: See Separate file

STIPULATIONS: 1- Federal Approval  
2- Sealing Spv





## State of Utah

### Department of Natural Resources

MICHAEL R. STYLER  
*Executive Director*

### Division of Oil, Gas & Mining

JOHN R. BAZA  
*Division Director*

JON M. HUNTSMAN, JR.  
*Governor*

GARY R. HERBERT  
*Lieutenant Governor*

May 25, 2006

Newfield Production Company  
Route 3 Box 3630  
Myton, UT 84052

Re: Federal 13-23-9-16 Well, 612' FSL, 466' FWL, SW SW, Sec. 23, T. 9 South,  
R. 16 East, Duchesne County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-013-33180.

Sincerely,

Gil Hunt  
Associate Director

mf  
Enclosures

cc: Duchesne County Assessor  
Bureau of Land Management, Vernal District Office

**Operator:** Newfield Production Company  
**Well Name & Number** Federal 13-23-9-16  
**API Number:** 43-013-33180  
**Lease:** UTU-74392

**Location:** SW SW                      **Sec.** 23                      **T.** 9 South                      **R.** 16 East

### **Conditions of Approval**

**1. General**

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

**2. Notification Requirements**

Notify the Division within 24 hours of spudding the well.

- Contact Carol Daniels at (801) 538-5284.

Notify the Division prior to commencing operations to plug and abandon the well.

- Contact Dan Jarvis at (801) 538-5338

**3. Reporting Requirements**

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

**4. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.**

**5. This proposed well is located in an area for which drilling units (well spacing patterns) have not been established through an order of the Board of Oil, Gas and Mining (the "Board"). In order to avoid the possibility of waste or injury to correlative rights, the operator is requested, once the well has been drilled, completed, and has produced, to analyze geological and engineering data generated therefrom, as well as any similar data from surrounding areas if available. As soon as is practicable after completion of its analysis, and if the analysis suggests an area larger than the quarter-quarter section upon which the well is located is being drained, the operator is requested to seek an appropriate order from the Board establishing drilling and spacing units in conformance with such analysis by filing a Request for Agency Action with the Board.**

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2006 MAY 19 PM 2:25

DEPT. OF THE INTERIOR  
BUREAU OF LAND MGMT.

Form 3160-3  
(September 2001)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED  
OMB No. 1004-0136  
Expires January 31, 2004

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. UTU-74392
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name N/A
2. Name of Operator Newfield Production Company		7. If Unit or CA Agreement, Name and No. N/A
3a. Address Route #3 Box 3630, Myton UT 84052	3b. Phone No. (include area code) (435) 646-3721	8. Lease Name and Well No. Federal 13-23-9-16
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface SW/SW 612' FSL 466' FWL At proposed prod. zone		9. API Well No. 43-013-33180
14. Distance in miles and direction from nearest town or post office* Approximatley 19.5 miles southwest of Myton, Utah		10. Field and Pool, or Exploratory Monument Butte
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) Approx. 612' f/lse, NA' f/unit	16. No. of Acres in lease 2080.00	11. Sec., T., R., M., or Blk. and Survey or Area SW/SW Sec. 23, T9S R16E
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. Approx. 2710'	19. Proposed Depth 5848'	12. County or Parish Duchesne
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 5751' GL	20. BLM/BLA Bond No. on file UTB000192	13. State UT
22. Approximate date work will start* 3rd Quarter 2006		23. Estimated duration Approximately seven (7) days from spud to rig release.

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, shall be attached to this form:

- Well plat certified by a registered surveyor.
- A Drilling Plan.
- A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
- Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- Operator certification.
- Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature 	Name (Printed/Typed) Mandie Crozier	Date 5/18/06
Title Regulatory Specialist		
Approved by (Signature) 	Name (Printed/Typed) Terry Hancock	Date 3-20-2007
Title Assistant Field Manager Lands & Mineral Resources		
Office VERNAL FIELD OFFICE		

Application approval does not warrant or certify the the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

**CONDITIONS OF APPROVAL ATTACHED**

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212. make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*(Instructions on reverse)

RECEIVED

APR 09 2007

NOTICE OF APPROVAL

DIV. OF OIL, GAS & MINING

UDOGM

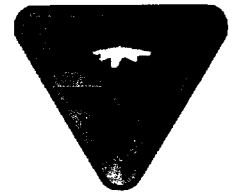
NO NOS

07BM4755A





**UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
VERNAL FIELD OFFICE  
170 South 500 East      VERNAL, UT 84078      (435) 781-4400**



**CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL**

**Company:** Newfield Production Company  
**Well No:** Federal 13-23-9-16  
**API No:** 43-013-33180

**Location:** SWSW, Sec 23, T9S, R16E  
**Lease No:** UTU-74392  
**Agreement:** N/A

Petroleum Engineer:	Matt Baker	Office: 435-781-4490	Cell: 435-828-4470
Petroleum Engineer:	Michael Lee	Office: 435-781-4432	Cell: 435-828-7875
Petroleum Engineer:	Jim Ashley	Office: 435-781-4470	Cell: 435-828-7874
Petroleum Engineer:	Ryan Angus	Office: 435-781-4430	
Supervisory Petroleum Technician:	Jamie Sparger	Office: 435-781-4502	Cell: 435-828-3913
Environmental Scientist:	Paul Buhler	Office: 435-781-4475	Cell: 435-828-4029
Environmental Scientist:	Karl Wright	Office: 435-781-4484	
Natural Resource Specialist:	Holly Villa	Office: 435-781-4404	
Natural Resource Specialist:	Melissa Hawk	Office: 435-781-4476	
Natural Resource Specialist:	Chuck Macdonald	Office: 435-781-4441	
Natural Resource Specialist:	Darren Williams	Office: 435-781-4447	
Natural Resource Specialist:	Verlyn Pindell	Office: 435-781-3402	
<b>After Hours Contact Number: 435-781-4513</b>		Fax: 435-781-4410	

**A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR  
FIELD REPRESENTATIVE TO INSURE COMPLIANCE**

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a one-year period. An additional year extension may be applied for by sundry notice prior to expiration.**

**NOTIFICATION REQUIREMENTS**

- |   |  |
|---|--|
| Location Construction<br>(Notify Chuck Macdonald)       | - Forty-Eight (48) hours prior to construction of location and access roads.   |
| Location Completion<br>(Notify Chuck Macdonald)         | - Prior to moving on the drilling rig.   |
| Spud Notice<br>(Notify Petroleum Engineer)              | - Twenty-Four (24) hours prior to spudding the well.   |
| Casing String & Cementing<br>(Notify Jamie Sparger)     | - Twenty-Four (24) hours prior to running casing and cementing all casing strings.   |
| BOP & Related Equipment Tests<br>(Notify Jamie Sparger) | - Twenty-Four (24) hours prior to initiating pressure tests.   |
| First Production Notice<br>(Notify Petroleum Engineer)  | - Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days. |

***SURFACE USE PROGRAM  
CONDITIONS OF APPROVAL (COAs)***

**LEASE STIPULATIONS AND NOTICES**

- **Wildlife Lease Notice:**
  - 1) **Golden Eagle notice.** The lessee/operator is given notice the lands in this lease have been identified as containing Golden Eagle habitat. Modifications to the Surface Use Plan of Operations may be required in order to protect the Golden Eagle and or habitat from surface disturbing activities in accordance with Section 6 of the lease terms, Endangered Species Act, and 43 CFR 3101.1-2.
  - 2) **Mountain Plover notice.** The lessee/operator is given notice the lands in this lease have been identified as containing Ferruginous Hawk Habitat. Modifications to the Surface Use Plan of Operations may be required in order to protect the Ferruginous Hawk and or habitat from surface disturbing activities in accordance with Section 6 of the lease terms, Endangered Species Act, and 43 CFR 3101.1-2.
  - 3) **Comments:** If it is anticipated that construction or drilling will occur during the given timing restrictions for any wildlife, a BLM or qualified biologist shall be notified so surveys can be conducted. Depending upon the results of the surveys, permission to proceed may or may not be recommended or granted (depending on the species being surveyed and the condition of the habitat).
- This well is being approved in accordance with Washington Instruction Memorandum 2005-247 and Section 390 (Category 3) of the Energy Policy Act which establishes statutory categorical exclusions (CX) under the National Environmental Policy Act (NEPA). Category 3 states that an oil or gas well can be drilled within a developed field for which an approved land use plan or any environmental document prepared pursuant to NEPA analyzed drilling as a reasonably foreseeable activity, so long as such plan or document was approved within five (5) years prior to the date of spudding the well. This well is covered under the *Final Environmental Impact Statement and Record of Decision Castle Peak and Eightmile Flat Oil and Gas Exploration Project Newfield Rocky Mountains Inc.*, signed August 24, 2005. If the well has not been spudded by August 24, 2010, a new environmental document will have to be prepared prior to the approval of the APD.

**CONDITIONS OF APPROVAL**

- All applicable local, state, and/or federal laws, regulations, and/or statutes will be complied with.
- All traffic related to this action will be restricted to approved routes. Cross-country vehicle travel will not be allowed.
- No vehicle travel, construction or routine maintenance activities shall be performed during periods when the soil is too wet to adequately support vehicles and/or construction equipment. If such equipment creates ruts in excess of three inches deep, the soil shall be deemed too wet to adequately support construction equipment.

- The access road will be crowned and ditched. Flat-bladed roads are not allowed.
- If additional erosion occurs during the life of this project, more culverts, low water crossings, berms, wing ditches or etc. will be needed to control the erosion.
- Low-water crossings will be appropriately constructed to avoid sedimentation of drainage ways and other water resources.
- Pipelines will be buried at all major drainage crossings.
- Prevent fill and stock piles from entering drainages.
- The reserve pit will be lined with a 12 ml or greater liner and felt prior to spudding.
- The liner is to be cut 5 feet below ground surface or at the level of the cuttings, whichever is deeper, and the excess liner material is to be disposed of at an authorized disposal site.
- When the reserve pit contains fluids or toxic substances, the operator must ensure animals do not ingest or become entrapped in pit fluids.
- If paleontologic or cultural materials are uncovered during construction, the operator shall immediately stop work that might further disturb or move such materials and contact the Authorized Officer (AO) within 48 hours. A determination will be made by the AO as to necessary mitigation for the discovered paleontologic/cultural material.
- If Uinta Basin hookless cactus or other special status plants are found, construction will cease and the AO will be notified to determine the appropriate mitigation.
- The interim seed mix for this location shall be:
  - Crested wheatgrass (*Agropyron cristatum*): 4 lbs/acre
  - Needle and Threadgrass (*Stipa comata*): 4 lbs/acre
  - Indian Ricegrass (*Oryzopsis hymenoides*): 4 lbs/acre
  - All pounds are in pure live seed.
  - Rates are set for drill seeding; double the rate if broadcasting.
  - Reseeding may be required if initial seeding is not successful.
- The operator will be responsible for treatment and control of invasive and noxious weeds.
- The topsoil from the reserve pit shall be stripped and piled separately near the reserve pit. When the reserve pit is closed, it shall be recontoured and the topsoil respread, and the area shall be seeded in the same manner as the location topsoil.
- Once the location is plugged and abandoned, it shall be recontoured to natural topology, topsoil shall be respread , and the entire location shall be seeded with a seed mix recommended by the

AO (preferably of native origin). Seed application will follow all guidelines in the interim seed mix bullet statement above. If reclamation seeding should take place using the broadcast method, the seed at a minimum will be walked into the soil with a dozer immediately after the seeding is completed.

- The authorized officer may prohibit surface disturbing activities during severe winter conditions to minimize watershed damage. This limitation does not apply to operation and maintenance of producing wells.
- The authorized officer may prohibit surface disturbing activities during wet or muddy conditions to minimize watershed damage. This limitation does not apply to operation and maintenance of producing wells.
- All well facilities not regulated by OSHA will be painted Olive Drab.
- All boulders with a length or diameter greater than 3 feet, that are found showing at the surface, will be stockpiled for use during final reclamation.
- Notify the Authorized Officer 48 hours prior to surface disturbing activities.
- Operator shall notify any active gilsonite mining operation within 2 miles of the location 48 hours prior to any blasting during construction for this well.

### ***DOWNHOLE CONDITIONS OF APPROVAL***

**All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to.** The following items are emphasized:

#### **SITE SPECIFIC DOWNHOLE CONDITIONS OF APPROVAL**

1. None.

#### **DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS**

1. There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well. Any changes in operation must have prior approval from the BLM, Vernal Field Office Petroleum Engineers.
2. The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
3. **Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.**
4. Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.

All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.

BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.

Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.

No aggressive/fresh hard-banded drill pipe shall be used within casing.

Cement baskets shall not be run on surface casing.

5. The lessee/operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled and analyzed (a copy of the analyses to be submitted to the BLM Field Office in Vernal, Utah).
6. All oil and gas shows shall be adequately tested for commercial possibilities, reported, and protected.

7. The lessee/operator must report encounters of all non oil and gas mineral resources (such as gilsonite, tar sands, oil shale, etc.) to the Vernal Field Office in writing within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.
8. No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM, Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM, Vernal Field Office shall be obtained and notification given before resumption of operations.
9. Chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.

Any change in the program shall be approved by the BLM, Vernal Field Office. "Sundry Notices and Reports on Wells" (Form BLM 3160-5) shall be filed for all changes of plans and other operations in accordance with 43 CFR 3162.3-2.

Emergency approval may be obtained orally, but such approval does not waive the written report requirement. Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan pursuant to Onshore Oil & Gas Order No. 1 of 43 CFR 3164.1 and prior approval by the BLM, Vernal Field Office.

In accordance with 43 CFR 3162.4-3, this well shall be reported on the "Monthly Report of Operations" (Oil and Gas Operations Report ((OGOR)) starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 (303) 231-3650 for reporting information.

10. Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.

**Please submit an electronic copy of all other logs run on this well in LAS format to UT\_VN\_Wellogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**

11. All off-lease storage, off-lease measurement, or commingling on-lease or off-lease shall have prior written approval from the BLM, Vernal Field Office.

All measurement points shall be identified as point of sales or allocation for royalty determination prior to the installation of facilities.

12. Oil and gas meters shall be calibrated in place prior to any deliveries. The Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM, Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement.
13. A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM, Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
14. This APD is approved subject to the requirement that, should the well be successfully completed for production, the BLM, Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
  - a. Operator name, address, and telephone number.
  - b. Well name and number.
  - c. Well location (¼¼, Sec., Twn, Rng, and P.M.).
  - d. Date well was placed in a producing status (date of first production for which royalty will be paid).
  - e. The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
  - f. The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.

- g. Unit agreement and / or participating area name and number, if applicable.
  - h. Communitization agreement number, if applicable.
15. Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from Field Office Petroleum Engineers.
  16. All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production
  17. Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
  18. Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry a different reservoir.  
Use "APPLICATION FOR PERMIT -" for such proposals

5. Lease Designation and Serial No.

**UTU-74392**

6. If Indian, Allottee or Tribe Name

**NA**

7. If Unit or CA, Agreement Designation

**N/A**

8. Well Name and No.

**FEDERAL 13-23-9-16**

9. API Well No.

**43-013-33180**

10. Field and Pool, or Exploratory Area

**MONUMENT BUTTE**

11. County or Parish, State

**DUCHESNE COUNTY, UT.**

**SUBMIT IN TRIPLICATE**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

**NEWFIELD PRODUCTION COMPANY**

3. Address and Telephone No.

**Rt. 3 Box 3630, Myton Utah, 84052 435-646-3721**

4. Location of Well (Footage, Sec., T., R., m., or Survey Description)

**612 FSL 466 FWL SW/SW Section 23, T9S R16E**

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

**TYPE OF SUBMISSION**

☒ Notice of Intent  
☐ Subsequent Report  
☐ Final Abandonment Notice

**TYPE OF ACTION**

☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☒ Other **Permit Extension**

☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☐ Conversion to Injection  
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Newfield Production Company requests to extend the Permit to Drill this well for one year. The original approval date was 5/25/06 (expiration 5/25/07).

This APD is not yet due to expire with the BLM.

Approved by the  
Utah Division of  
Oil, Gas and Mining

Date: 05-01-07  
By: [Signature]

5-3-07  
Rm  
**RECEIVED**

**MAY 01 2007**

DIV. OF OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct

Signed

Mandie Crozier  
Mandie Crozier

Title

Regulatory Specialist

Date

4/30/2007

CC: UTAH DOGM

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

CC: Utah DOGM

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**Application for Permit to Drill  
Request for Permit Extension  
Validation**

(this form should accompany the Sundry Notice requesting permit extension)

**API:** 43-013-33180  
**Well Name:** Federal 13-23-9-16  
**Location:** SW/SW Section 23,T9S R16E  
**Company Permit Issued to:** Newfield Production Company  
**Date Original Permit Issued:** 5/25/2006

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.

Following is a checklist of some items related to the application, which should be verified.

If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes ☐ No ☐

Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes ☐ No ☒


Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes ☐ No ☒

Have there been any changes to the access route including ownership, or right-of-way, which could affect the proposed location? Yes ☐ No ☒

Has the approved source of water for drilling changed? Yes ☐ No ☒

Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes ☐ No ☒

Is bonding still in place, which covers this proposed well? Yes ☒ No ☐

  
Signature

4/30/2007

Date

**Title:** Regulatory Specialist

**Representing:** Newfield Production Company

## DIVISION OF OIL, GAS AND MINING

### ***SPUDDING INFORMATION***

Name of Company: Newfield Production Company

Well Name: Federal 13-23-9-16

API No: 43-013-33180 Lease Type: Federal

Section 23 Township 09S Range 16E County Duchesne

Drilling Contractor NDSI Rig # NS# 1

### **SPUDDED:**

Date 10-5-07

Time 5:30 PM

How Dry

***Drilling will Commence:*** \_\_\_\_\_

Reported by Brandon Hall

Telephone # 435-828-6110

Date 10-9-07 Signed RM

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING  
ENTITY ACTION FORM - FORM 6

OPERATOR: NEWFIELD PRODUCTION COMPANY  
ADDRESS: RT. 3 BOX 3830  
MYTON, UT 84052

OPERATOR ACCT. NO. N2695

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
WELL 1 COMMENTS:											
A	99999	16408	4301333082	FEDERAL 1-24-9-16	NENE	24	9S	16E	DUCHESNE	10/10/2007	10/17/07
GRRV											
A	99999	16409	4301332999	FEDERAL 13-18-9-16	SWSW	18	9S	16E	DUCHESNE	10/4/2007	10/17/07
GRRV											
A	99999	16410	4301333180	FEDERAL 13-23-9-16	SWSW	23	9S	16E	DUCHESNE	10/5/2007	10/17/07
GRRV											
A	99999	16411	4301333085	FEDERAL 7-24-9-16	SWNE	24	9S	16E	DUCHESNE	10/8/2007	10/17/07
WELL 5 COMMENTS: GRRV											
A	99999	16412	4301333160	FEDERAL 11-19-9-16	NESW	19	9S	16E	DUCHESNE	10/9/2007	10/17/07
WELL 6 COMMENTS: GRRV											

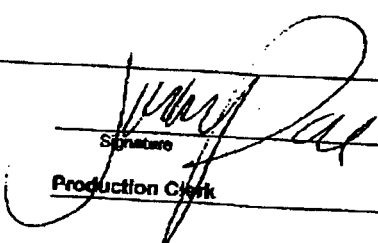
RECEIVED

OCT 11 2007

DIV. OF OIL, GAS & MINING

- ACTION CODES (See Instructions on back of form)
- A - new entity for new well (single well only)
  - B - well to existing entity (group or unit well)
  - C - from one existing entity to another existing entity
  - D - well from one existing entity to a new entity
  - E - other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected.

Signature:   
Jentri Park  
Production Clerk  
Date: 10/11/07

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0135  
Expires January 31, 2004

**SUNDRY NOTICES AND REPORTS ON WELLS**  
**Do not use this form for proposals to drill or to re-enter an**  
**abandoned well. Use Form 3160-3 (APD) for such proposals.**

5. Lease Serial No.

USA UTU-15855

6. If Indian, Allottee or Tribe Name.

7. If Unit or CA/Agreement, Name and/or

8. Well Name and No.

FEDERAL 13-23-9-16

9. API Well No.

4301333180

10. Field and Pool, or Exploratory Area

MONUMENT BUTTE

11. County or Parish, State

DUCHESNE, UT

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

NEWFIELD PRODUCTION COMPANY

3a. Address Route 3 Box 3630

Myton, UT 84052

3b. Phone (include area code)

435.646.3721

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

612 FSL 466 FWL

SWSW Section 23 T9S R16E

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production(Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other _____
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug & Abandon	<input type="checkbox"/> Temporarily Abandon	Spud Notice _____
	<input type="checkbox"/> Convert to	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	_____

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

On 10/05/06 MIRU NDSI NS # 1. Spud well @ 5:30 pm. Drill 320' of 12 1/4" hole with air mist. TIH W/ 7 Jt's 8 5/8" J-55 24 # csgn. Set @ 322.58 KB. On 10/06/06 cement with 160 sks of class "G" w/ 3% CaCL2 + 1/4# sk Cello- Flake Mixed @ 15.8 ppg > 1.17 cf/ sk yeild. Returned 3 bbls cement to pit. WOC.

I hereby certify that the foregoing is true and correct (Printed/ Typed)

Jim Smith

Signature

Title

Drilling Foreman

Date

10/07/2007

Approved by \_\_\_\_\_

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title

Date

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious and fraudulent statements or representations as to any matter within its jurisdiction

(Instructions on reverse)

**RECEIVED**  
**OCT 11 2007**

DIV. OF OIL, GAS &amp; MINING

LAST CASING 8 5/8" set @ 322.58  
 DATUM 12' KB  
 DATUM TO CUT OFF CASING \_\_\_\_\_  
 DATUM TO BRADENHEAD FLANGE \_\_\_\_\_  
 TD DRILLER 315' LOGGER \_\_\_\_\_  
 HOLE SIZE 12 1/4

OPERATOR Newfield Production Company  
 WELL Federal 13-23-9-16  
 FIELD/PROSPECT Monument Butte  
 CONTRACTOR & RIG # NDSI NS # 1

LOG OF CASING STRING:

PIECES	OD	ITEM - MAKE - DESCRIPTION	WT / FT	GRD	THREAD	CONDT	LENGTH		
		Shoe Joint 43.78'							
		WHI - 92 csg head			8rd	A	0.95		
7	8 5/8"	Maverick ST&C csg	24#	J-55	8rd	A	312.36		
		GUIDE shoe			8rd	A	0.9		
CASING INVENTORY BAL.		FEET	JTS	TOTAL LENGTH OF STRING				312.58	
TOTAL LENGTH OF STRING		312.58	7	LESS CUT OFF PIECE				2	
LESS NON CSG. ITEMS		1.85		PLUS DATUM TO T/CUT OFF CSG				12	
PLUS FULL JTS. LEFT OUT		0		CASING SET DEPTH				322.58	
TOTAL		310.73	7	} COMPARE					
TOTAL CSG. DEL. (W/O THRDS)		310.73	7						
TIMING		1ST STAGE							
BEGIN RUN CSG.		Spud	10/5/2007	10:00 PM	GOOD CIRC THRU JOB				Yes
CSG. IN HOLE			10/5/2007	10:30 PM	Bbls CMT CIRC TO SURFACE				4
BEGIN CIRC			10/6/2007	12:40 PM	RECIPROCATED PIPE FOR				N/A
BEGIN PUMP CMT			10/6/2007	12:50 PM					
BEGIN DSPL. CMT			10/6/2007	1:00 PM	BUMPED PLUG TO				105 PSI
PLUG DOWN			10/6/2007	1:06 PM					
CEMENT USED		CEMENT COMPANY- B. J.							
STAGE	# SX	CEMENT TYPE & ADDITIVES							
1	160	Class "G" w/ 2% CaCL2 + 1/4#/sk Cello-Flake mixed @ 15.8 ppg 1.17 cf/sk yield							
CENTRALIZER & SCRATCHER PLACEMENT			SHOW MAKE & SPACING						
Centralizers - Middle first, top second & third for 3									

COMPANY REPRESENTATIVE Jim Smith DATE 10/6/2007

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0135  
Expires January 31, 2004

**SUNDRY NOTICES AND REPORTS ON WELLS**  
Do not use this form for proposals to drill or to re-enter an  
abandoned well. Use Form 3160-3 (APD) for such proposals.

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

NEWFIELD PRODUCTION COMPANY

3a. Address Route 3 Box 3630

Myton, UT 84052

3b. Phone (include area code)

435.646.3721

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

612 FSL 466 FWL

SWSW Section 23 T9S R16E

5. Lease Serial No.

USA UTU-15855

6. If Indian, Allottee or Tribe Name.

7. If Unit or CA/Agreement, Name and/or

8. Well Name and No.

FEDERAL 13-23-9-16

9. API Well No.

4301333180

10. Field and Pool, or Exploratory Area

MONUMENT BUTTE

11. County or Parish, State

DUCHESNE, UT

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production(Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other _____
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug & Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to	<input type="checkbox"/> Plug Back	<input checked="" type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Formation water is produced to a steel storage tank. If the production water meets quality guidelines, it is transported to the Ashley, Monument Butte, Jonah, and Beluga water injection facilities by company or contract trucks. Subsequently, the produced water is injected into approved Class II wells to enhance Newfield's secondary recovery project.

Water not meeting quality criteria, is disposed at Newfield's Pariette #4 disposal well (Sec. 7, T9S R19E) or at State of Utah approved surface disposal facilities.

Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY

I hereby certify that the foregoing is true and correct (Printed/ Typed)

Mandie Crozier

Title

Regulatory Specialist

Signature

Date

11/02/2007

Approved by

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title

Date

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make any false, fictitious and fraudulent statements or representations as to any matter within its jurisdiction

(Instructions on reverse)

RECEIVED  
NOV 05 2007  
DIV. OF OIL, GAS & MINING

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION AND SERIAL NUMBER:  
USA UTU-15855

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ OTHER

8. WELL NAME and NUMBER:  
FEDERAL 13-23-9-16

2. NAME OF OPERATOR:  
NEWFIELD PRODUCTION COMPANY

9. API NUMBER:  
4301333180

3. ADDRESS OF OPERATOR: Route 3 Box 3630 CITY Myton STATE UT ZIP 84052 PHONE NUMBER 435.646.3721

10. FIELD AND POOL, OR WILDCAT:  
MONUMENT BUTTE

4. LOCATION OF WELL:  
FOOTAGES AT SURFACE: 612 FSL 466 FWL

COUNTY: DUCHESNE

OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: SWSW, 23, T9S, R16E

STATE: UT

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate)  Approximate date work will  _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARITLY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only)  Date of Work Completion:  11/15/2007	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/STOF)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: - Weekly Status Report
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The above subject well was completed on 11/01/07. attached is a daily completion status report.

NAME (PLEASE PRINT) Jentri Park

TITLE Production Clerk

SIGNATURE

DATE 11/15/2007

(This space for State use only)

RECEIVED

NOV 16 2007

DIV OF OIL, GAS & MINING



## Daily Activity Report

Format For Sundry

**FEDERAL 13-23-9-16****8/1/2007 To 12/30/2007****10/23/2007 Day: 1****Completion**

Rigless on 10/22/2007 - Install 5M frac head. NU 6" 5M Cameron BOP. RU H/O truck & pressure test casing, blind rams, frac head & casing valves to 4500 psi. RU Perforators LLC WLT w/ mast & run CBL under pressure. WLTD @ 5628' & cement top @ 118'. Perforate stage #1. CP5 sds @ 5532- 48' w/ 3 1/8" slick guns (19 gram, .49" HE, 120°, 21.92" pen, EXP-3319-331 Titan) w/ 4 spf for total of 64 shots. 135 BWTR. SIFN.

**10/27/2007 Day: 2****Completion**

Rigless on 10/26/2007 - RU BJ Services "Ram Head" frac flange. RU BJ & frac CP5 sds, stage #1 down casing w/ 89,901#'s of 20/40 sand in 710 bbls of Lightning 17 frac fluid. Open well w/ 0 psi on casing. Perfs broke down @ 3325 psi. Pump 30 gals of Techna Hib. Treated @ ave pressure of 1990 @ ave rate of 24.8 bpm w/ 8 ppg of sand. Spot 12 bbls of 15% HCL acid in flush for next stage. ISIP was 2180. 845 bbls EWTR. Leave pressure on well. RU Perforators LLC WLT, crane & lubricator. RIH w/ Weatherford 5-1/2" (6K) composite flow through frac plug & 9' perf gun. Set plug @ 5070'. Perforate LODC sds @ 4963-72' w/ 3-1/8" Slick Guns (19 gram, .49" HE, 120° ) w/ 4 spf for total of 36 shots. RU BJ & frac stage #2 w/ 56,448#'s of 20/40 sand in 493 bbls of Lightning 17 frac fluid. Open well w/ 1705 psi on casing. Perfs broke down @ 3307 psi. Pump 30 gals of Techna Hib. Treated @ ave pressure of 2830 @ ave rate of 24.8 bpm w/ 8 ppg of sand. ISIP was 3045. 1338 bbls EWTR. RD BJ & WLT. Flow well back. Well flowed for 5 hours & died w/ 380 bbls rec'd. SIFN.

**10/31/2007 Day: 3****Completion**

Rigless on 10/30/2007 - MIRUSU. Open well w/ 300 psi on casing. RD Cameron BOP's & 5K frac head. Instal 3K production head & Schaefer BOP's. RU bit 4-3/4" Chomp-used & bit sub. Tally & pickup new J-55, 2-7/8", 6.5# tbg off racks. Tag plug @ 5070' w/ 160 jts. RU swivel, pump & tanks. Drlg out plug #1. TIH w/tbg to leave EOT @ 5104'. SIFN.

**11/1/2007 Day: 4****Completion**

Western #2 on 10/31/2007 - Open well w/ 150 psi on casing. TIH w/ tbg to tag sand @ 5592'. RU pump/tanks. C/O to PBTD @ 5676'. LD 2 jts tbg. RU swab quipment. Made 9 runs to rec'd 92 bbls fluid. IFL was surface. FFL was 2500'. Last run showed trace of oil w/ no sand. RD swab. TIH w/ tbg to PBTD no new sand. TOOH w/ tbg. LD bit & bit sub. TIH w/ NC, 2 jts tbg, SN, 1 jt tbg, TA (new CDI w/ 45,000# shear), 174 jts tbg. RD BOP's. Set TA @ 5487' w/ 16,000#'s tension w/ SN @ 5521' & EOT @ 5586'. Flush tbg w/ 60bbls water. SIFN.

**11/2/2007 Day: 5****Completion**

Western #2 on 11/1/2007 - Open well w/ 150 psi on casing. Pickup & prime pump. TIH w/ 2-1/2" x 1-1/2" x 12' x 15.5' RHAC new CDI pump w/ 125"SL, 6- 1-1/2" weight rods, 20- 3/4" guided rods, 94- 3/4" slick rods, 100- 3/4" guided rods, 1-1/2" x 26' polish rod. Space pump. Test tbg & pump to 800 psi w/ pump unit. RDMOSU. POP @ 1PM w/ 86"SL @ 5 spm. Final Report.

**Pertinent Files: Go to File List**

**RECEIVED**

**NOV 16 2007**

**DIV. OF OIL, GAS & MINING**

(See other in-  
structions on  
reverse side)

OMB NO. 1004-0137

Expires: February 28, 1995

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG\*

## 1a. TYPE OF WORK

OIL WELL ☒ GAS WELL ☐ DRY ☐ Other \_\_\_\_\_

## 1b. TYPE OF WELL

NEW WELL ☒ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF RESVR. ☐ Other \_\_\_\_\_

## 2. NAME OF OPERATOR

Newfield Exploration Company

## 3. ADDRESS AND TELEPHONE NO.

1401 17th St. Suite 1000 Denver, CO 80202

## 4. LOCATION OF WELL (Report locations clearly and in accordance with any State requirements.\*)

At Surface 612' FSL &amp; 466' FWL (SW/SW) Sec. 23, T9S, R16E

At top prod. Interval reported below

At total depth

## 14. API NO.

43-013-33180

## DATE ISSUED

05/25/07

## 15. DATE SPUDDED

10/05/07

## 16. DATE T.D. REACHED

10/11/07

## 17. DATE COMPL. (Ready to prod.)

11/01/07

## 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\*

5751' GL

## 9. WELL NO.

43-013-33180

## 10. FIELD AND POOL OR WILDCAT

Monument Butte

## 11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA

Sec. 23, T9S, R16E

## 12. COUNTY OR PARISH

Duchesne

## 13. STATE

UT

## 20. TOTAL DEPTH, MD &amp; TVD

5735'

## 21. PLUG BACK T.D., MD &amp; TVD

5676'

22. IF MULTIPLE COMPL.,  
HOW MANY\*

5751' GL

## 19. ELEV. CASINGHEAD

5763' KB

## 24. PRODUCING INTERVAL(S), OF THIS COMPLETION--TOP, BOTTOM, NAME (MD AND TVD)\*

Green River 4963'-5548'

25. WAS DIRECTIONAL  
SURVEY MADE

No

## 26. TYPE ELECTRIC AND OTHER LOGS RUN

Dual Induction Guard, SP, Compensated Density, Compensated Neutron, GR, Caliper, Cement Bond Log

## 27. WAS WELL CORED

No

## 23. CASING RECORD (Report all strings set in well)

CASING SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
8-5/8" - J-55	24#	322'	12-1/4"	To surface with 160 sx Class "G" cmt	
5-1/2" - J-55	15.5#	5718'	7-7/8"	300 sx Premilite II and 400 sx 50/50 Poz	

## 29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2-7/8"	EOT @ 5586'	TA @ 5486'

## 31. PERFORATION RECORD (Interval, size and number)

INTERVAL	SIZE	SPF/NUMBER	32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.
(CP5) 5532'-5548'	.49"	4/64	DEPTH INTERVAL (MD) 5532'-5548'
(LODC) 4963'-4972'	.49"	4/36	AMOUNT AND KIND OF MATERIAL USED
			Frac w/ 89,901# 20/40 sand in 710 bbls fluid
			Frac w/ 56,448# 20/40 sand in 493 bbls fluid

## 33.\* PRODUCTION

DATE FIRST PRODUCTION 11/01/07		PRODUCTION METHOD (Flowing, gas lift, pumping--size and type of pump) 2-1/2" x 1-1/2" x 12' x 15.5' RHAC SM Plunger Pump					WELL STATUS (Producing or shut-in) PRODUCING	
DATE OF TEST 10 day ave		HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD ----->	OIL--BBL. 46	GAS--MCF. 70	WATER--BBL. 4	GAS-OIL RATIO 1522
FLOW. TUBING PRESS.		CASING PRESSURE	CALCULATED 24-HOUR RATE ----->	OIL--BBL.	GAS--MCF.	WATER--BBL.	OIL GRAVITY-API (CORR.) RECEIVED	

## 34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

Sold &amp; Used for Fuel

## TEST WITNESSED BY

DEC 17 2007

## 35. LIST OF ATTACHMENTS

## 36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

Jentri Park

TITLE

Production Clerk

DATE

11/28/2007

\*(See Instructions and Spaces for Additional Data on Reverse Side)

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals, and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries);					38. GEOLOGIC MARKERS		
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP		
					MEAS. DEPTH	TRUE VERT. DEPTH	
			Well Name Federal 13-23-9-16	Garden Gulch Mkr	3360'		
				Garden Gulch 1	3568'		
				Garden Gulch 2	3682'		
				Point 3 Mkr	3902'		
				X Mkr	4185'		
				Y-Mkr	4215'		
				Douglas Creek Mkr	4334'		
				BiCarbonate Mkr	4558'		
				B Limestone Mkr	4664'		
				Castle Peak	5179'		
				Basal Carbonate	5638'		
				Total Depth (LOGGERS)	5721'		



Well Name: Federal 13-23-9-16

Spud Date: 10-5-07

LOCATION: S23, T9S, R16E

TD: 5735'

COUNTY/STATE: Duchesne

CSG: 10-11-07

API: 43-013-33180

POP: 11-1-07

DATE	HRS	Oil (bbls)	Water (bbls)	Recovered Water (bbls)	Gas (mcf)	Casing Pressure (psi)	SPM	Comments
11/1/2007				923				POP @ 1:00 P.M. w/ 86" SL @ 5 SPM. 923 Total water to recover.
11/2/2007	17	91	93	830	0	0	5	
11/3/2007	24	10	80	750	0	65	5	
11/4/2007	24	71	25	725	0	70	5	
11/5/2007	24	81	11	714	0	70	5	
11/6/2007	24	70	66	648	0	70	5	Drained 66 bbls from T1 to T3
11/7/2007	24	104	20	628	53	70	5	
11/8/2007	24	40	8	620	30	48	5	
11/9/2007	24	78	10	610	45	48	5	
11/10/2007	24	75	13	597	29	38	5	
11/11/2007	24	68	10	587	24	40	5 3/4	
11/12/2007	24	72	8	579	26	43	5 3/4	
11/13/2007	24	65	8	571	48	45	5 3/4	
11/14/2007	24	52	7	564	55	60	5 3/4	
11/15/2007	24	50	5	559	14	60	5 1/2	
11/16/2007	24	36	3	556	92	60	5 3/4	
11/17/2007	24	46	3	553	87	50	5 1/2	
11/18/2007	24	41	3	550	74	50	5 1/2	
11/19/2007	24	33	0	550	74	50	5 1/2	
11/20/2007	24	35	3	547	65	55	5 3/4	
11/21/2007	24	31	1	546	74	55	5 1/2	
11/22/2007	24	25	0	546	49	55	5 3/4	
11/23/2007	24	32	2	544	46	55	5 3/4	
11/24/2007	24	30	2	542	36	58	5 3/4	
11/25/2007	24	30	0	542	47	52	5 3/4	
11/26/2007	24	26	2	540	46	60	5 3/4	
11/27/2007	24	22	2	538	47	75	5 3/4	
11/28/2007	24	32	2	536	44	62	5 3/4	
11/29/2007	24	25	0	536	65	60	5 1/2	
11/30/2007				536				
12/1/2007				536				
12/2/2007				536				
		<b>1371</b>	<b>387</b>		<b>1170</b>			

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-74392
<b>1. TYPE OF WELL</b> Oil Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> NEWFIELD PRODUCTION COMPANY		<b>7. UNIT or CA AGREEMENT NAME:</b> GMBU (GRRV)
<b>3. ADDRESS OF OPERATOR:</b> Rt 3 Box 3630, Myton, UT, 84052		<b>8. WELL NAME and NUMBER:</b> FEDERAL 13-23-9-16
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0612 FSL 0466 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWSW Section: 23 Township: 09.0S Range: 16.0E Meridian: S		<b>9. API NUMBER:</b> 43013331800000
<b>PHONE NUMBER:</b> 435 646-4825 Ext		<b>9. FIELD and POOL or WILDCAT:</b> MONUMENT BUTTE
<b>COUNTY:</b> DUCHESNE		<b>STATE:</b> UTAH

11.

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input checked="" type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input checked="" type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PLUG BACK <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> WILDCAT WELL DETERMINATION <input type="checkbox"/> OTHER
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 10/16/2013	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input checked="" type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION

OTHER: New Perforation

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The subject well has been converted from a producing oil well to an injection well on 10/11/2013. New Perforation - GB6 3884-3886' 3 JSFP. On 10/15/2013 Chris Jensen with the State of Utah DOGM was contacted concerning the initial MIT on the above listed well. On 10/16/2013 the casing was pressured up to 1650 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 350 psig during the test. There was not a State representative available to witness the test.

**Accepted by the  
Utah Division of  
Oil, Gas and Mining**

Date: October 24, 2013

By: 

<b>NAME (PLEASE PRINT)</b> Lucy Chavez-Naupoto	<b>PHONE NUMBER</b> 435 646-4874	<b>TITLE</b> Water Services Technician
<b>SIGNATURE</b> N/A	<b>DATE</b> 10/21/2013	

# Mechanical Integrity Test Casing or Annulus Pressure Test

Newfield Production Company  
Rt. 3 Box 3630  
Myton, UT 84052  
435-646-3721

Witness: \_\_\_\_\_ Date 10/16/13 Time 9:45 am pm  
Test Conducted by: EVERETT UNRUH  
Others Present: \_\_\_\_\_

Well: FEDERAL 13-23-9-16

Field: Monument Butte

Well Location: SWSW Sec 23 T9S R16E  
Duchesne County, UT

API No: 43-013-33180

<u>Time</u>	<u>Casing Pressure</u>	
0 min	<u>1650</u>	psig
5	<u>1650</u>	psig
10	<u>1650</u>	psig
15	<u>1650</u>	psig
20	<u>1650</u>	psig
25	<u>1650</u>	psig
30 min	<u>1650</u>	psig
35		psig
40		psig
45		psig
50		psig
55		psig
60 min		psig

Tubing pressure: 350 psig

Result:

Pass

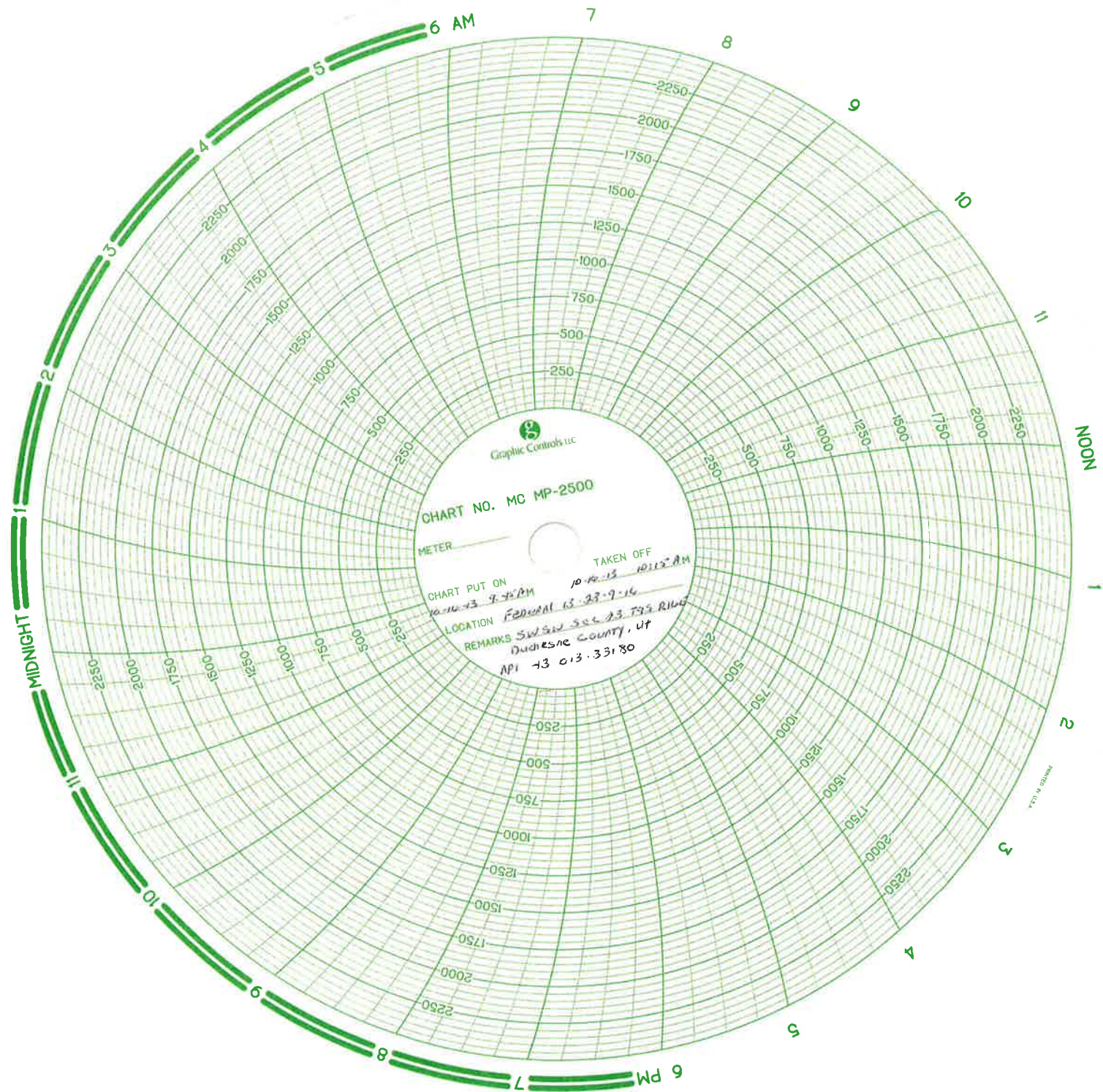
Fail

Signature of Witness: \_\_\_\_\_

Signature of Person Conducting Test: Everett Unruh



Sundry Number: 44008 API Well Number: 43013331800000





## Daily Activity Report

Format For Sundry

**FEDERAL 13-23-9-16**

**8/1/2013 To 12/30/2013**

**10/8/2013 Day: 1**

**Conversion**

Nabors #1450 on 10/8/2013 - MIRU Press test Tbg - LOAD TRAILERS, PRE-TRIP, MOVE FROM THE 10-18-9-16 (9.5 MILES) SI - UNHANG HORSE HEAD, UNSEAT PUMP, FLUSH TBG w/ 40 BW @ 250 DEG, SOFT SEAT PUMP, FILL TBG w/ 14 BW, PT TBG TO 3000#, HELD FOR 5 Min, GOOD TEST, R.D. HOT OILER, SWI, S.D.F.N - UNHANG HORSE HEAD, UNSEAT PUMP, FLUSH TBG w/ 40 BW @ 250 DEG, SOFT SEAT PUMP, FILL TBG w/ 14 BW, PT TBG TO 3000#, HELD FOR 5 Min, GOOD TEST, R.D. HOT OILER, SWI, S.D.F.N - LOAD TRAILERS, PRE-TRIP, MOVE FROM THE 10-18-9-16 (9.5 MILES) SI - SIRUSU, STRETCH LINES - UNHANG HORSE HEAD, UNSEAT PUMP, FLUSH TBG w/ 40 BW @ 250 DEG, SOFT SEAT PUMP, FILL TBG w/ 14 BW, PT TBG TO 3000#, HELD FOR 5 Min, GOOD TEST, R.D. HOT OILER, SWI, S.D.F.N - LOAD TRAILERS, PRE-TRIP, MOVE FROM THE 10-18-9-16 (9.5 MILES) SI - SIRUSU, STRETCH LINES - UNHANG HORSE HEAD, UNSEAT PUMP, FLUSH TBG w/ 40 BW @ 250 DEG, SOFT SEAT PUMP, FILL TBG w/ 14 BW, PT TBG TO 3000#, HELD FOR 5 Min, GOOD TEST, R.D. HOT OILER, SWI, S.D.F.N - LOAD TRAILERS, PRE-TRIP, MOVE FROM THE 10-18-9-16 (9.5 MILES) SI - SIRUSU, STRETCH LINES - UNHANG HORSE HEAD, UNSEAT PUMP, FLUSH TBG w/ 40 BW @ 250 DEG, SOFT SEAT PUMP, FILL TBG w/ 14 BW, PT TBG TO 3000#, HELD FOR 5 Min, GOOD TEST, R.D. HOT OILER, SWI, S.D.F.N - LOAD TRAILERS, PRE-TRIP, MOVE FROM THE 10-18-9-16 (9.5 MILES) SI - SIRUSU, STRETCH LINES - UNHANG HORSE HEAD, UNSEAT PUMP, FLUSH TBG w/ 40 BW @ 250 DEG, SOFT SEAT PUMP, FILL TBG w/ 14 BW, PT TBG TO 3000#, HELD FOR 5 Min, GOOD TEST, R.D. HOT OILER, SWI, S.D.F.N - LOAD TRAILERS, PRE-TRIP, MOVE FROM THE 10-18-9-16 (9.5 MILES) SI - SIRUSU, STRETCH LINES - UNHANG HORSE HEAD, UNSEAT PUMP, FLUSH TBG w/ 40 BW @ 250 DEG, SOFT SEAT PUMP, FILL TBG w/ 14 BW, PT TBG TO 3000#, HELD FOR 5 Min, GOOD TEST, R.D. HOT OILER, SWI, S.D.F.N - LOAD TRAILERS, PRE-TRIP, MOVE FROM THE 10-18-9-16 (9.5 MILES) SI - SIRUSU, STRETCH LINES - SIRUSU, STRETCH LINES **Finalized**

**Daily Cost:** \$0

**Cumulative Cost:** \$3,867

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**10/9/2013 Day: 2**

**Conversion**

Nabors #1450 on 10/9/2013 - POOH LD Rods. POOH & Dope Tbg - Travel time / JSP MEETING - POOH BREAKING EVERY CONNECTION - Travel time - N.D. WH & FLOWLINE, N.U. BOP'S, T/A WAS NOT SET, R.D. FLOOR, R.U. TONGS & HANDRAILS, FLUSH CSG w/ 50 BW @ 200 DEG - POOH w/ 118-JNTS 2 7/8" J-55 6.5# EUE TBG, BREAKING, CLEANING, DOPING & TORQUING EVERY CONNECTION - FLUSH TBG w/ 20 BW @ 250 DEG - POOH & L.D. 55 - JNTS 2 7/8" J-55 TBG, T/A, 1-JNT, S/N, 2 -JNTS TBG, N/C, SWI, S.D.F.N. - Travel time - Travel time / JSP MEETING - POOH BREAKING EVERY CONNECTION - OPEN TBG UP, RIH & UNSEAT PUMP, L.D. POLISH ROD, 2'- 4' x 3/4" PONIES, 125-3/4" 4per, 23-3/4" PLAIN, 64-3/4" 4per, 6-1 1/2" WT BARS, & PUMP (FLUSH TWICE ON TOO) - N.D. WH & FLOWLINE, N.U. BOP'S, T/A WAS NOT SET, R.D. FLOOR, R.U. TONGS & HANDRAILS, FLUSH CSG w/ 50 BW @ 200 DEG - POOH w/ 118-JNTS 2 7/8" J-55 6.5# EUE TBG, BREAKING, CLEANING, DOPING & TORQUING EVERY CONNECTION - FLUSH TBG w/ 20 BW @ 250 DEG - POOH & L.D. 55 - JNTS 2 7/8" J-55 TBG, T/A, 1-JNT, S/N, 2 -JNTS TBG, N/C, SWI, S.D.F.N. - Travel time - Travel time / JSP MEETING - POOH BREAKING EVERY CONNECTION - OPEN TBG UP, RIH & UNSEAT PUMP, L.D. POLISH ROD, 2'- 4' x 3/4" PONIES, 125-3/4" 4per, 23-3/4" PLAIN, 64-3/4" 4per, 6-1 1/2" WT BARS, & PUMP (FLUSH TWICE ON TOO) - N.D. WH & FLOWLINE, N.U. BOP'S, T/A WAS NOT SET, R.D. FLOOR, R.U. TONGS & HANDRAILS, FLUSH CSG w/ 50 BW @ 200 DEG - POOH w/ 118-JNTS 2 7/8" J-55 6.5# EUE TBG, BREAKING, CLEANING, DOPING & TORQUING EVERY CONNECTION - FLUSH TBG w/ 20 BW @ 250 DEG - POOH & L.D. 55 - JNTS 2 7/8" J-55 TBG, T/A, 1-JNT, S/N, 2 -JNTS TBG, N/C, SWI, S.D.F.N. - Travel time - Travel time / JSP MEETING - POOH BREAKING EVERY CONNECTION - OPEN TBG UP, RIH & UNSEAT

PUMP, L.D. POLISH ROD, 2'- 4' x 3/4" PONIES, 125-3/4" 4per, 23-3/4" PLAIN, 64-3/4" 4per, 6-1 1/2" WT BARS, & PUMP (FLUSH TWICE ON TOO) - N.D. WH & FLOWLINE, N.U. BOP'S, T/A WAS NOT SET, R.D. FLOOR, R.U. TONGS & HANDRAILS, FLUSH CSG w/ 50 BW @ 200 DEG - POOH w/ 118-JNTS 2 7/8" J-55 6.5# EUE TBG, BREAKING, CLEANING, DOPING & TORQUING EVERY CONNECTION - FLUSH TBG w/ 20 BW @ 250 DEG - POOH & L.D. 55 - JNTS 2 7/8" J-55 TBG, T/A, 1-JNT, S/N, 2 -JNTS TBG, N/C, SWI, S.D.F.N. - Travel time - Travel time / JSP MEETING - POOH BREAKING EVERY CONNECTION - OPEN TBG UP, RIH & UNSEAT PUMP, L.D. POLISH ROD, 2'- 4' x 3/4" PONIES, 125-3/4" 4per, 23-3/4" PLAIN, 64-3/4" 4per, 6-1 1/2" WT BARS, & PUMP (FLUSH TWICE ON TOO) - N.D. WH & FLOWLINE, N.U. BOP'S, T/A WAS NOT SET, R.D. FLOOR, R.U. TONGS & HANDRAILS, FLUSH CSG w/ 50 BW @ 200 DEG - POOH w/ 118-JNTS 2 7/8" J-55 6.5# EUE TBG, BREAKING, CLEANING, DOPING & TORQUING EVERY CONNECTION - FLUSH TBG w/ 20 BW @ 250 DEG - POOH & L.D. 55 - JNTS 2 7/8" J-55 TBG, T/A, 1-JNT, S/N, 2 -JNTS TBG, N/C, SWI, S.D.F.N. - Travel time - Travel time / JSP MEETING - POOH BREAKING EVERY CONNECTION - OPEN TBG UP, RIH & UNSEAT PUMP, L.D. POLISH ROD, 2'- 4' x 3/4" PONIES, 125-3/4" 4per, 23-3/4" PLAIN, 64-3/4" 4per, 6-1 1/2" WT BARS, & PUMP (FLUSH TWICE ON TOO) - N.D. WH & FLOWLINE, N.U. BOP'S, T/A WAS NOT SET, R.D. FLOOR, R.U. TONGS & HANDRAILS, FLUSH CSG w/ 50 BW @ 200 DEG - POOH w/ 118-JNTS 2 7/8" J-55 6.5# EUE TBG, BREAKING, CLEANING, DOPING & TORQUING EVERY CONNECTION - FLUSH TBG w/ 20 BW @ 250 DEG - POOH & L.D. 55 - JNTS 2 7/8" J-55 TBG, T/A, 1-JNT, S/N, 2 -JNTS TBG, N/C, SWI, S.D.F.N. - OPEN TBG UP, RIH & UNSEAT PUMP, L.D. POLISH ROD, 2'- 4' x 3/4" PONIES, 125-3/4" 4per, 23-3/4" PLAIN, 64-3/4" 4per, 6-1 1/2" WT BARS, & PUMP (FLUSH TWICE ON TOO) **Finalized**

**Daily Cost:** \$0

**Cumulative Cost:** \$12,952

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**10/10/2013 Day: 3****Conversion**

Nabors #1450 on 10/10/2013 - Perforate GB6 Sands. TIH W/ RBP, PKR on N80 Tbg. Set RBP @ 4115' Press test Tools Set PKR @ 3783 Brwak down Perfs. Release PKR CWI. - Travel time / JSP MEETING - WIRELINE - Travel time - M.U. & RIH w/ 5 1/2" TS PLUG, ON/OFF TOOL, 4' PUP JNT, 5 1/2" PKR, 2 7/8" S/N, 125-JNTS TBG, SET TS PLUG & 4115' POOH w/ 7-JNTS 2 7/8" J-55 TBG, SET PKR @ 3783' - R.U. FILL & PT CSG & BOP'S TO 1600psi, GOOD TEST, R.U.& FILL TBG, BREAK DOWN ZONE @ 2200psi, INJECTION RATE OF 1/3 BW/MIN @ 1800psi, UNSET PKR, P.U. FRAC VALVE, SWI, S.D.F.N. - Travel time - Travel time / JSP MEETING - WIRELINE - BLEED WELL DOWN, R.U. (PERFORATORS) WIRELINE, RIH W/ 3-1/8 CSG GUNS 3 SPF PERFORATE THE GB6 SANDS @ 3884-86', POOH & R.D. WIRELINE - M.U. & RIH w/ 5 1/2" TS PLUG, ON/OFF TOOL, 4' PUP JNT, 5 1/2" PKR, 2 7/8" S/N, 125-JNTS TBG, SET TS PLUG & 4115' POOH w/ 7-JNTS 2 7/8" J-55 TBG, SET PKR @ 3783' - R.U. FILL & PT CSG & BOP'S TO 1600psi, GOOD TEST, R.U.& FILL TBG, BREAK DOWN ZONE @ 2200psi, INJECTION RATE OF 1/3 BW/MIN @ 1800psi, UNSET PKR, P.U. FRAC VALVE, SWI, S.D.F.N. - Travel time - Travel time / JSP MEETING - WIRELINE - BLEED WELL DOWN, R.U. (PERFORATORS) WIRELINE, RIH W/ 3-1/8 CSG GUNS 3 SPF PERFORATE THE GB6 SANDS @ 3884-86', POOH & R.D. WIRELINE - M.U. & RIH w/ 5 1/2" TS PLUG, ON/OFF TOOL, 4' PUP JNT, 5 1/2" PKR, 2 7/8" S/N, 125-JNTS TBG, SET TS PLUG & 4115' POOH w/ 7-JNTS 2 7/8" J-55 TBG, SET PKR @ 3783' - R.U. FILL & PT CSG & BOP'S TO 1600psi, GOOD TEST, R.U.& FILL TBG, BREAK DOWN ZONE @ 2200psi, INJECTION RATE OF 1/3 BW/MIN @ 1800psi, UNSET PKR, P.U. FRAC VALVE, SWI, S.D.F.N. - Travel time - Travel time / JSP MEETING - WIRELINE - BLEED WELL DOWN, R.U. (PERFORATORS) WIRELINE, RIH W/ 3-1/8 CSG GUNS 3 SPF PERFORATE THE GB6 SANDS @ 3884-86', POOH & R.D. WIRELINE - M.U. & RIH w/ 5 1/2" TS PLUG, ON/OFF TOOL, 4' PUP JNT, 5 1/2" PKR, 2 7/8" S/N, 125-JNTS TBG, SET TS PLUG & 4115' POOH w/ 7-JNTS 2 7/8" J-55 TBG, SET PKR @ 3783' - R.U. FILL & PT CSG & BOP'S TO 1600psi, GOOD TEST, R.U.& FILL TBG, BREAK DOWN ZONE @ 2200psi, INJECTION RATE OF 1/3 BW/MIN @ 1800psi, UNSET PKR, P.U. FRAC VALVE, SWI, S.D.F.N. - Travel time - Travel time / JSP MEETING - WIRELINE - BLEED WELL DOWN, R.U. (PERFORATORS) WIRELINE, RIH W/ 3-1/8 CSG GUNS 3 SPF PERFORATE THE GB6 SANDS @ 3884-86', POOH & R.D. WIRELINE

- M.U. & RIH w/ 5 1/2" TS PLUG, ON/OFF TOOL, 4' PUP JNT, 5 1/2" PKR, 2 7/8" S/N, 125-JNTS TBG, SET TS PLUG & 4115' POOH w/ 7-JNTS 2 7/8" J-55 TBG, SET PKR @ 3783' - R.U. FILL & PT CSG & BOP'S TO 1600psi, GOOD TEST, R.U. & FILL TBG, BREAK DOWN ZONE @ 2200psi, INJECTION RATE OF 1/3 BW/MIN @ 1800psi, UNSET PKR, P.U. FRAC VALVE, SWI, S.D.F.N. - Travel time - Travel time / JSP MEETING - WIRELINE - BLEED WELL DOWN, R.U. (PERFORATORS) WIRELINE, RIH W/ 3-1/8 CSG GUNS 3 SPF PERFORATE THE GB6 SANDS @ 3884-86', POOH & R.D. WIRELINE - M.U. & RIH w/ 5 1/2" TS PLUG, ON/OFF TOOL, 4' PUP JNT, 5 1/2" PKR, 2 7/8" S/N, 125-JNTS TBG, SET TS PLUG & 4115' POOH w/ 7-JNTS 2 7/8" J-55 TBG, SET PKR @ 3783' - R.U. FILL & PT CSG & BOP'S TO 1600psi, GOOD TEST, R.U. & FILL TBG, BREAK DOWN ZONE @ 2200psi, INJECTION RATE OF 1/3 BW/MIN @ 1800psi, UNSET PKR, P.U. FRAC VALVE, SWI, S.D.F.N. - BLEED WELL DOWN, R.U. (PERFORATORS) WIRELINE, RIH W/ 3-1/8 CSG GUNS 3 SPF PERFORATE THE GB6 SANDS @ 3884-86', POOH & R.D. WIRELINE **Finalized**

**Daily Cost:** \$0

**Cumulative Cost:** \$22,332

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**10/11/2013 Day: 4**

**Conversion**

Nabors #1450 on 10/11/2013 - Set PKR @ 3789' Frac GB6 Sands. POOH & LD N80 Tbg. RIH W/ Inj Tbg - Travel time. Safety Meeting JSA - SET PKR @ 3789' FRAC GB6 SAND W/ 17,000# 20/40 WHITE SAND. ISIP 1676 PSI FG.86. MAX PRESS 4221 PSI, AVG PRESS 4035, MAX RATE 20.1 BPM, AVG RATE 19.5 BPM. TOTAL BBLS PUMPED 321 - FLOW WELL BACK, CIRC TBG VOLUME, UNSET PKR, RIH & TAG 16' OF FILL ON PLUG, CIRC CLEAN, UNSET PLUG - POOH & L.D. WORK STRING, BREAK DOWN TOOLS - M.U. & RIH w/ RE-ENTRY SHOE, 2 3/8" "XN" NIPPLE, 4' x 2 3/8" PUP JNT, 5 1/2" ARROW SET PKR, 2 7/8" S/N, 120- JNTS 2 7/8" J-55 TBG - FLUSH TBG w/ 20 BW @ 250 DEG, FOLLOW w/ 15 BW PAD, DROP SV, PSI UPTO 3000#, BLEED AIR OFF, PSI UPTO 3000#, SWI, S.D.F.N. - Travel time - Travel time. Safety Meeting JSA - SET PKR @ 3789' FRAC GB6 SAND W/ 17,000# 20/40 WHITE SAND. ISIP 1676 PSI FG.86. MAX PRESS 4221 PSI, AVG PRESS 4035, MAX RATE 20.1 BPM, AVG RATE 19.5 BPM. TOTAL BBLS PUMPED 321 - FLOW WELL BACK, CIRC TBG VOLUME, UNSET PKR, RIH & TAG 16' OF FILL ON PLUG, CIRC CLEAN, UNSET PLUG - POOH & L.D. WORK STRING, BREAK DOWN TOOLS - M.U. & RIH w/ RE-ENTRY SHOE, 2 3/8" "XN" NIPPLE, 4' x 2 3/8" PUP JNT, 5 1/2" ARROW SET PKR, 2 7/8" S/N, 120- JNTS 2 7/8" J-55 TBG - FLUSH TBG w/ 20 BW @ 250 DEG, FOLLOW w/ 15 BW PAD, DROP SV, PSI UPTO 3000#, BLEED AIR OFF, PSI UPTO 3000#, SWI, S.D.F.N. - Travel time - Travel time. Safety Meeting JSA - SET PKR @ 3789' FRAC GB6 SAND W/ 17,000# 20/40 WHITE SAND. ISIP 1676 PSI FG.86. MAX PRESS 4221 PSI, AVG PRESS 4035, MAX RATE 20.1 BPM, AVG RATE 19.5 BPM. TOTAL BBLS PUMPED 321 - FLOW WELL BACK, CIRC TBG VOLUME, UNSET PKR, RIH & TAG 16' OF FILL ON PLUG, CIRC CLEAN, UNSET PLUG - POOH & L.D. WORK STRING, BREAK DOWN TOOLS - M.U. & RIH w/ RE-ENTRY SHOE, 2 3/8" "XN" NIPPLE, 4' x 2 3/8" PUP JNT, 5 1/2" ARROW SET PKR, 2 7/8" S/N, 120- JNTS 2 7/8" J-55 TBG - FLUSH TBG w/ 20 BW @ 250 DEG, FOLLOW w/ 15 BW PAD, DROP SV, PSI UPTO 3000#, BLEED AIR OFF, PSI UPTO 3000#, SWI, S.D.F.N. - Travel time - Travel time. Safety Meeting JSA - SET PKR @ 3789' FRAC GB6 SAND W/ 17,000# 20/40 WHITE SAND. ISIP 1676 PSI FG.86. MAX PRESS 4221 PSI, AVG PRESS 4035, MAX RATE 20.1 BPM, AVG RATE 19.5 BPM. TOTAL BBLS PUMPED 321 - FLOW WELL BACK, CIRC TBG VOLUME, UNSET PKR, RIH & TAG 16' OF FILL ON PLUG, CIRC CLEAN, UNSET PLUG - POOH & L.D. WORK STRING, BREAK DOWN TOOLS - M.U. & RIH w/ RE-ENTRY SHOE, 2 3/8" "XN" NIPPLE, 4' x 2 3/8" PUP JNT, 5 1/2" ARROW SET PKR, 2 7/8" S/N, 120- JNTS 2 7/8" J-55 TBG - FLUSH TBG w/ 20 BW @ 250 DEG, FOLLOW w/ 15 BW PAD, DROP SV, PSI UPTO 3000#, BLEED AIR OFF, PSI UPTO 3000#, SWI, S.D.F.N. - Travel time - Travel time. Safety Meeting JSA - SET PKR @ 3789' FRAC GB6 SAND W/ 17,000# 20/40 WHITE SAND. ISIP 1676 PSI FG.86. MAX PRESS 4221 PSI, AVG PRESS 4035, MAX RATE 20.1 BPM, AVG RATE 19.5 BPM. TOTAL BBLS PUMPED 321 - FLOW WELL BACK, CIRC TBG VOLUME, UNSET PKR, RIH & TAG 16' OF FILL ON PLUG, CIRC CLEAN, UNSET PLUG - POOH & L.D. WORK STRING, BREAK DOWN TOOLS - M.U. & RIH w/ RE-ENTRY SHOE, 2 3/8" "XN" NIPPLE, 4' x 2 3/8" PUP JNT, 5 1/2" ARROW SET PKR,

2 7/8" S/N, 120- JNTS 2 7/8" J-55 TBG - FLUSH TBG w/ 20 BW @ 250 DEG, FOLLOW w/ 15 BW PAD, DROP SV, PSI UPTO 3000#, BLEED AIR OFF, PSI UPTO 3000#, SWI, S.D.F.N. - Travel time - Travel time. Safety Meeting JSA - SET PKR @ 3789' FRAC GB6 SAND W/ 17,000# 20/40 WHITE SAND. ISIP 1676 PSI FG.86. MAX PRESS 4221 PSI, AVG PRESS 4035, MAX RATE 20.1 BPM, AVG RATE 19.5 BPM. TOTAL BBLS PUMPED 321 - FLOW WELL BACK, CIRC TBG VOLUME, UNSET PKR, RIH & TAG 16' OF FILL ON PLUG, CIRC CLEAN, UNSET PLUG - POOH & L.D. WORK STRING, BREAK DOWN TOOLS - M.U. & RIH w/ RE-ENTRY SHOE, 2 3/8" "XN" NIPPLE, 4' x 2 3/8" PUP JNT, 5 1/2" ARROW SET PKR, 2 7/8" S/N, 120- JNTS 2 7/8" J-55 TBG - FLUSH TBG w/ 20 BW @ 250 DEG, FOLLOW w/ 15 BW PAD, DROP SV, PSI UPTO 3000#, BLEED AIR OFF, PSI UPTO 3000#, SWI, S.D.F.N. - Travel time **Finalized**

**Daily Cost:** \$0

**Cumulative Cost:** \$83,193

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**10/14/2013 Day: 5**

**Conversion**

Nabors #1450 on 10/14/2013 - Set PKR NU WH. Press test Csg & Tbg - Travel time / JSP MEETING - PSI TESTING TBG - CHECK TBG PSI - 2500psi, PSI UPTO 3000#, BLED DOWN TO 2900psi, PSI UPTO 3000psi, HELD FOR 30 MIN - Travel time - MOVE TO THE GMBU R-8-9-16, SRI, S.D.F.N. - DROP LINES, R.D. WRAP LINES, PRE-TRIP, LOAD TRAILERS - PSI UP CSG TO 1500psi, BLED DOWN TO 1300psi, PSI BACK UPTO 1500#, HELD FOR 30 MIN - R.U. H/O TO CSG, PUMP 50 BW PKR FLUID DWN CSG, N.D. B1-FLANGE, SET PKR @ 3796' N.U. & LAND TBG ON INJECTION TREE - BLEED TBG OFF, M.U. OVERSHOT ON SANDLINE, RIH & RETRIEVE SV, POOH & R.D. SANDLINE - R.D. TONGS & HANDRAILS, R.U. FLOOR, N.D. BOP'S, N.U. B1-FLANGE - R.U. H/O TO CSG, PUMP 50 BW PKR FLUID DWN CSG, N.D. B1-FLANGE, SET PKR @ 3796' N.U. & LAND TBG ON INJECTION TREE - PSI UP CSG TO 1500psi, BLED DOWN TO 1300psi, PSI BACK UPTO 1500#, HELD FOR 30 MIN - DROP LINES, R.D. WRAP LINES, PRE-TRIP, LOAD TRAILERS - MOVE TO THE GMBU R-8-9-16, SRI, S.D.F.N. - Travel time - Travel time / JSP MEETING - PSI TESTING TBG - CHECK TBG PSI - 2500psi, PSI UPTO 3000#, BLED DOWN TO 2900psi, PSI UPTO 3000psi, HELD FOR 30 MIN - BLEED TBG OFF, M.U. OVERSHOT ON SANDLINE, RIH & RETRIEVE SV, POOH & R.D. SANDLINE - R.D. TONGS & HANDRAILS, R.U. FLOOR, N.D. BOP'S, N.U. B1-FLANGE - R.U. H/O TO CSG, PUMP 50 BW PKR FLUID DWN CSG, N.D. B1-FLANGE, SET PKR @ 3796' N.U. & LAND TBG ON INJECTION TREE - PSI UP CSG TO 1500psi, BLED DOWN TO 1300psi, PSI BACK UPTO 1500#, HELD FOR 30 MIN - DROP LINES, R.D. WRAP LINES, PRE-TRIP, LOAD TRAILERS - MOVE TO THE GMBU R-8-9-16, SRI, S.D.F.N. - Travel time - Travel time / JSP MEETING - PSI TESTING TBG - CHECK TBG PSI - 2500psi, PSI UPTO 3000#, BLED DOWN TO 2900psi, PSI UPTO 3000psi, HELD FOR 30 MIN - BLEED TBG OFF, M.U. OVERSHOT ON SANDLINE, RIH & RETRIEVE SV, POOH & R.D. SANDLINE - R.D. TONGS & HANDRAILS, R.U. FLOOR, N.D. BOP'S, N.U. B1-FLANGE - R.U. H/O TO CSG, PUMP 50 BW PKR FLUID DWN CSG, N.D. B1-FLANGE, SET PKR @ 3796' N.U. & LAND TBG ON INJECTION TREE - PSI UP CSG TO 1500psi, BLED DOWN TO 1300psi, PSI BACK UPTO 1500#, HELD FOR 30 MIN - DROP LINES, R.D. WRAP LINES, PRE-TRIP, LOAD TRAILERS - MOVE TO THE GMBU R-8-9-16, SRI, S.D.F.N. - Travel time - Travel time / JSP MEETING - PSI TESTING TBG - CHECK TBG PSI - 2500psi, PSI UPTO 3000#, BLED DOWN TO 2900psi, PSI UPTO 3000psi, HELD FOR 30 MIN - BLEED TBG OFF, M.U. OVERSHOT ON SANDLINE, RIH & RETRIEVE SV, POOH & R.D. SANDLINE - R.D. TONGS & HANDRAILS, R.U. FLOOR, N.D. BOP'S, N.U. B1-FLANGE - R.U. H/O TO CSG, PUMP 50 BW PKR FLUID DWN CSG, N.D. B1-FLANGE, SET PKR @ 3796' N.U. & LAND TBG ON INJECTION TREE - PSI UP CSG TO 1500psi, BLED DOWN TO 1300psi, PSI BACK UPTO 1500#, HELD FOR 30 MIN

- DROP LINES, R.D. WRAP LINES, PRE-TRIP, LOAD TRAILERS - MOVE TO THE GMBU R-8-9-16, SRI, S.D.F.N. - Travel time - Travel time / JSP MEETING - PSI TESTING TBG - CHECK TBG PSI - 2500psi, PSI UPTO 3000#, BLED DOWN TO 2900psi, PSI UPTO 3000psi, HELD FOR 30 MIN - BLEED TBG OFF, M.U. OVERSHOT ON SANDLINE, RIH & RETRIEVE SV, POOH & R.D. SANDLINE - R.D. TONGS & HANDRAILS, R.U. FLOOR, N.D. BOP'S, N.U. B1-FLANGE **Finalized**  
**Daily Cost:** \$0

**Cumulative Cost:** \$88,083

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**10/17/2013 Day: 6****Conversion**

Rigless on 10/17/2013 - Conduct initial MIT - On 10/15/2013 Chris Jensen with the State of Utah DOGM was contacted concerning the initial MIT on the above listed well. On 10/16/2013 the casing was pressured up to 1650 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 350 psig during the test. There was not a State representative available to witness the test. - On 10/15/2013 Chris Jensen with the State of Utah DOGM was contacted concerning the initial MIT on the above listed well. On 10/16/2013 the casing was pressured up to 1650 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 350 psig during the test. There was not a State representative available to witness the test. - On 10/15/2013 Chris Jensen with the State of Utah DOGM was contacted concerning the initial MIT on the above listed well. On 10/16/2013 the casing was pressured up to 1650 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 350 psig during the test. There was not a State representative available to witness the test. - On 10/15/2013 Chris Jensen with the State of Utah DOGM was contacted concerning the initial MIT on the above listed well. On 10/16/2013 the casing was pressured up to 1650 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 350 psig during the test. There was not a State representative available to witness the test. - On 10/15/2013 Chris Jensen with the State of Utah DOGM was contacted concerning the initial MIT on the above listed well. On 10/16/2013 the casing was pressured up to 1650 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 350 psig during the test. There was not a State representative available to witness the test. - On 10/15/2013 Chris Jensen with the State of Utah DOGM was contacted concerning the initial MIT on the above listed well. On 10/16/2013 the casing was pressured up to 1650 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 350 psig during the test. There was not a State representative available to witness the test. **Finalized**

**Daily Cost:** \$0

**Cumulative Cost:** \$120,295

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**Pertinent Files: [Go to File List](#)**

Spud Date: 10/5/07

Put on Production: 6/5/08

GL: 5751' KB: 5763'

## Federal 13-23-9-16

Injection Wellbore  
DiagramSURFACE CASING

CSG SIZE: 8-5/8"

GRADE: J-55

WEIGHT: 24#

LENGTH: 7 jts. (312.58')

DEPTH LANDED: 322.58'

HOLE SIZE: 12-1/4"

CEMENT DATA: 160 sxs Class "G" cmt, circ. 4 bbls to surf.

Casing Shoe @ 323'

PRODUCTION CASING

CSG SIZE: 5-1/2"

GRADE: J-55

WEIGHT: 15.5#

LENGTH: 150 jts. (5720.33')

DEPTH LANDED: 5718.33'

HOLE SIZE: 7-7/8"

CEMENT DATA: 300 sxs Premilite II &amp; 400 sxs 50/50 POZ.

CEMENT TOP: 118' per CBL 10/23/07

TUBING

SIZE/GRADE/WT: 2-7/8" / J-55 / 6.5#

NO. OF JOINTS: 124 jts (3777.2')

SEATING NIPPLE: 2-7/8" (1.10')

SN LANDED AT: 3789.2' KB

ON/OFF TOOL AT: 3790.3'

ARROW #1 PACKER CE AT: 3795.1'

XO 2-3/8 x 2-7/8 J-55 AT: 3798.7'

TBG PUP 2-3/8 J-55 AT: 3799.2'

X/N NIPPLE AT: 3803.3'

TOTAL STRING LENGTH: EOT @ 3804.94'

FRAC JOB

10/26/07 5532-5548'

**Frac CP5 sands as follows:**

89901# 20/40 sand in 710 bbls Lightning 17 frac fluid. Treated @ avg press of 1990 psi w/avg rate of 24.8 BPM. ISIP 2180 psi.

10/26/07 4963-4972'

**Frac LODC sands as follows:**

56448# 20/40 sand in 493 bbl Lightning 17 frac fluid. Treated @ avg press of 2830 psi w/avg rate of 24.8 BPM. ISIP 3045 psi.

06/03/08 4798-4822'

**Frac A1 sands as follows:**

159955# 20/40 sand in 1112 bbls Lightning 17 frac fluid. Treated @ avg press of 1807 psi w/avg rate of 26.6 BPM. ISIP 1971 psi.

06/03/08 4643-4600'

**Frac B2 sands as follows:**

99834# 20/40 sand in 748 bbls Lightning 17 frac fluid. Treated @ avg press of 1930 psi w/avg rate of 25.5 BPM. ISIP 2135 psi.

06/03/08 4874-4888'

**Frac C sands as follows:**

79546# 20/40 sand in 617 bbls Lightning 17 frac fluid. Treated @ avg press of 2034 psi w/avg rate of 26.3 BPM. ISIP 1907 psi.

3/16/10

**Pump change.** Updated rod and tubing detail.

1/8/2011

**Pump Change.** Update rod and tubing details.

10/10/13 3884-3886'

**Frac GB6 sands as follows:** 17000# 20/40 sand in 182 bbls Lightning 17 frac fluid

10/11/13

**Convert to Injection Well**

10/16/13

**Conversion MIT Finalized** – update tbg detail

SN @ 3789'

On Off Tool @ 3790'

Packer @ 3795'

X/N Nipple @ 3803'  
EOT @ 3805'

3884-3886'

4506-4520'

4643-4650'

4654-4660'

4798-4822'

4963-4972'

5532-5548'

PBTD @ 5676'

TD @ 5735'

PERFORATION RECORD

5532-5548'	4 JSPF	64 holes
4963-4972'	4 JSPF	36 holes
4798-4822'	4 JSPF	96 holes
4654-4660'	4 JSPF	24 holes
4643-4650'	4 JSPF	28 holes
4506-4520'	4 JSPF	56 holes
3884-3886'	3 JSPF	6 holes

**NEWFIELD****Federal 13-23-9-16**

612' FSL &amp; 466' FWL

SW/SW Section 23-T9S-R16E

Duchesne Co, Utah

API #43-013-33180; Lease # UTU-74392

LCN 10/18/13

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-74392
<b>1. TYPE OF WELL</b> Water Injection Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> NEWFIELD PRODUCTION COMPANY		<b>7. UNIT or CA AGREEMENT NAME:</b> GMBU (GRRV)
<b>3. ADDRESS OF OPERATOR:</b> Rt 3 Box 3630, Myton, UT, 84052		<b>8. WELL NAME and NUMBER:</b> FEDERAL 13-23-9-16
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0612 FSL 0466 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWSW Section: 23 Township: 09.0S Range: 16.0E Meridian: S		<b>9. API NUMBER:</b> 43013331800000
<b>PHONE NUMBER:</b> 435 646-4825 Ext		<b>9. FIELD and POOL or WILDCAT:</b> MONUMENT BUTTE
<b>COUNTY:</b> DUCHESNE		<b>STATE:</b> UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 11/14/2013	<input type="checkbox"/> ALTER CASING	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE TUBING	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> CONVERT WELL TYPE	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> PLUG BACK	
	<input type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. <div style="display: flex; justify-content: space-between;"> <div style="width: 60%;">           The above reference well was put on injection at 1:45 PM on 11/14/2013.         </div> <div style="width: 35%; text-align: right;"> <b>Accepted by the Utah Division of Oil, Gas and Mining</b>   <b>Date:</b> December 18, 2013  <b>By:</b> </div> </div>		
<b>NAME (PLEASE PRINT)</b> Lucy Chavez-Naupoto	<b>PHONE NUMBER</b> 435 646-4874	<b>TITLE</b> Water Services Technician
<b>SIGNATURE</b> N/A	<b>DATE</b> 11/19/2013	

**NEWFIELD**



**Newfield Exploration Company**

1001 17th Street | Suite 2000

Denver, Colorado 80202

PH 303-893-0102 | FAX 303-893-0103

January 24, 2013

**RECEIVED**

**JAN 25 2013**

**DIV. OF OIL, GAS & MINING**

Mr. Mark Reinbold  
State of Utah  
Division of Oil, Gas and Mining  
1594 W North Temple  
Salt Lake City, Utah 84114-5801

RE: Permit Application for Water Injection Well  
Federal #13-23-9-16  
Monument Butte Field, Lease #UTU-74392  
Section 23-Township 9S-Range 16E  
Duchesne County, Utah

Dear Mr. Reinbold:

Newfield Production Company herein requests approval to convert the Federal #13-23-9-16 from a producing oil well to a water injection well in the Monument Butte (Green River) Field.

I hope you find this application complete; however, if you have any questions or require additional information, please contact me at (303) 893-0102.

Sincerely,

Eric Sundberg  
Environmental Manager



**NEWFIELD PRODUCTION COMPANY**  
**APPLICATION FOR APPROVAL OF CLASS II INJECTION WELL**  
**FEDERAL #13-23-9-16**  
**MONUMENT BUTTE FIELD (GREEN RIVER) FIELD**  
**LEASE #UTU-74392**  
**JANUARY 24, 2013**

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STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

APPLICATION FOR INJECTION WELL - UIC FORM 1

OPERATOR Newfield Production Company  
ADDRESS 1001 17th Street, Suite 2000  
Denver, Colorado 80202

Well Name and number: Federal #13-23-9-16  
Field or Unit name: Monument Butte (Green River) Lease No. UTU-74392  
Well Location: QQ SWSW section 23 township 9S range 16E county Duchesne

Is this application for expansion of an existing project? . . . . . Yes [ X ] No [ ]

Will the proposed well be used for: Enhanced Recovery? . . . . . Yes [ X ] No [ ]  
Disposal? . . . . . Yes [ ] No [ X ]  
Storage? . . . . . Yes [ ] No [ X ]

Is this application for a new well to be drilled? . . . . . Yes [ ] No [ X ]

If this application is for an existing well,  
has a casing test been performed on the well? . . . . . Yes [ ] No [ X ]

Date of test: \_\_\_\_\_

API number: 43-013-33180

Proposed injection interval: from 3682 to 5673  
Proposed maximum injection: rate 500 bpd pressure 1875 psig  
Proposed injection zone contains [ x ] oil, [ ] gas, and/or [ ] fresh water within 1/2  
mile of the well.

IMPORTANT: Additional information as required by R615-5-2 should  
accompany this form.

List of Attachments: Attachments "A" through "H-1"

I certify that this report is true and complete to the best of my knowledge.

Name: Eric Sundberg Signature   
Title Environmental Manager Date 1/24/13  
Phone No. (303) 893-0102

(State use only)

Application approved by \_\_\_\_\_ Title \_\_\_\_\_

Approval Date \_\_\_\_\_

Comments:

# Federal 13-23-9-16

Spud Date: 10/5/07  
Put on Production: 6/5/08  
GL: 5751' KB: 5763'

## Proposed Injection Wellbore Diagram

Initial Production: BOPD,  
MCFD, BWPD

### SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts. (312.58')  
DEPTH LANDED: 322.58'  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 160 sxs Class "G" cmt, circ. 4 bbls to surf.

### PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 150 jts. (5720.33')  
DEPTH LANDED: 5718.33'  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 300 sxs Premilite II & 400 sxs 50/50 POZ.  
CEMENT TOP: 118' per CBL 10/23/07

### TUBING (KS 1/6/11)

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
NO. OF JOINTS: 173 jts (5443.5')  
TUBING ANCHOR: 5443.5' KB  
NO. OF JOINTS: 1jts (31.4')  
SEATING NIPPLE: 2-7/8" (1.10")  
SN LANDED AT: 5477.7'  
NO. OF JOINTS: 2 jts (63.0')  
NOTCHED COLLAR: 2-7/8" (0.5')  
TOTAL STRING LENGTH: EOT @ 5542'

TOC @ 118'

Casing Shoe @ 323'

Packer @ 4456'  
4506-4520'

4643-4650'  
4654-4660'

4798-4822'

4963-4972'

5532-5548'

PBTD @ 5676'

TD @ 5735'

### FRAC JOB

10/26/07	5532-5548'	<b>Frac CP5 sands as follows:</b> 89901# 20/40 sand in 710 bbls Lightning 17 frac fluid. Treated @ avg press of 1990 psi w/avg rate of 24.8 BPM. ISIP 2180 psi.
10/26/07	4963-4972'	<b>Frac LODC sands as follows:</b> 56448# 20/40 sand in 493 bbl Lightning 17 frac fluid. Treated @ avg press of 2830 psi w/avg rate of 24.8 BPM. ISIP 3045 psi.
06/03/08	4798-4822'	<b>Frac A1 sands as follows:</b> 159955# 20/40 sand in 1112 bbls Lightning 17 frac fluid. Treated @ avg press of 1807 psi w/avg rate of 26.6 BPM. ISIP 1971 psi.
06/03/08	4643-4600'	<b>Frac B2 sands as follows:</b> 99834# 20/40 sand in 748 bbls Lightning 17 frac fluid. Treated @ avg press of 1930 psi w/avg rate of 25.5 BPM. ISIP 2135 psi.
06/03/08	4874-4888'	<b>Frac C sands as follows:</b> 79546# 20/40 sand in 617 bbls Lightning 17 frac fluid. Treated @ avg press of 2034 psi w/avg rate of 26.3 BPM. ISIP 1907 psi.
3/16/10		Pump change. Updated rod and tubing detail.
1/8/2011		Pump Change. Update rod and tubing details.

### PERFORATION RECORD

5532-5548'	4 JSPF	64 holes
4963-4972'	4 JSPF	36 holes
4798-4822'	4 JSPF	96 holes
4654-4660'	4 JSPF	24 holes
4643-4650'	4 JSPF	28 holes
4506-4520'	4 JSPF	56 holes

**NEWFIELD**

**Federal 13-23-9-16**

612' FSL & 466' FWL

SW/SW Section 23-T9S-R16E

Duchesne Co, Utah

API #43-013-33180; Lease # UTU-74392

JL 12/18/12

## **WORK PROCEDURE FOR INJECTION CONVERSION**

1. Rig up hot oil truck to casing. Pump water. Unseat pump. Flush rods. Trip out of hole with rods and pump.
2. Trip out of hole with tubing, breaking and doping every connection. Trip in hole with packer and tubing. Rig up water truck to casing. Pump packer fluid. Set packer.
3. Test casing and packer.
4. Rig down and move out.

**REQUIREMENTS FOR INJECTION OF FLUIDS INTO RESERVOIRS  
RULE R615-5-1**

- 1. Operations to increase ultimate recovery, such as cycling of gas, the maintenance of pressure, the introduction of gas, water or other substances into a reservoir for the purpose of secondary or other enhanced recovery or for storage and the injection of water into any formation for the purpose of water disposal shall be permitted only by order of the Board after notice and hearing.**
- 2. A request for agency action for authority for the injection of gas, liquified petroleum gas, air, water or any other medium into any formation for any reason, including but not necessarily limited to the establishment of or the expansion of waterflood projects, enhanced recovery projects, and pressure maintenance projects shall contain:**

**2.1 The name and address of the operator of the project.**

Newfield Production Company  
1001 17<sup>th</sup> Street, Suite 2000  
Denver, Colorado 80202

**2.2 A plat showing the area involved and identifying all wells, including all proposed injection wells, in the project area and within one-half mile of the project area.**

See Attachment A.

**2.3 A full description of the particular operation for approval is requested.**

Approval is requested to convert the Federal #13-23-9-16 from a producing oil well to a water injection well in Monument Butte (Green River) Field.

**2.4 A description of the pools from which the identified wells are producing or have produced.**

The proposed injection well will inject into the Green River Formation.

**2.5 The names, description and depth of the pool or pools to be affected.**

The injection zone is in the Green River Formation. For the Federal #13-23-9-16 well, the proposed injection zone is from Garden Gulch to Basal Carbonate (3682' - 5673'). The confining strata directly above and below the injection zones are the Garden Gulch and the top of the Wasatch Formation or TD, whichever ever is shallower. The Garden Gulch Marker top is at 3360' and the TD is at 5735'.

**2.6 A copy of a log of a representative well completed in the pool.**

The referenced log for the Federal #13-23-9-16 is on file with the Utah Division of Oil, Gas and Mining.

- 2.7 A statement as to the type of fluid to be used for injection, its source and the estimated amounts to be injected daily.**

The primary type and source of fluid to be used for injection will be culinary water commingled with produced water. The average estimated injection of fluids will be at a rate of 300 BPD, and the estimated maximum injection will be at a rate of 500 BPD.

- 2.8 A list of all operators and surface owners within one-half mile radius of the proposed project.**

See Attachment B.

- 2.9 An affidavit certifying that said operators or owners and surface owners within a one-half mile radius have been provided a copy of the petition for injection.**

See Attachment C.

- 2.10 Any additional information the Board may determine is necessary to adequately review the petition.**

Newfield Production Company will supply any additional information requested by the Utah Division of Oil, Gas and Mining.

- 4.0 Establish recovery projects may be expanded and additional wells placed on injection only upon authority from the Board after notice and hearing or by administrative approval.**

This proposed injection well is on a Federal lease (Lease #UTU-74392) in the Monument Butte Federal (Green River) Field, and this request is for administrative approval.

**REQUIREMENTS FOR CLASS II INJECTION WELLS INCLUDING WATER DISPOSAL,  
STORAGE AND ENHANCED RECOVERY WELLS  
SECTION V – RULE R615-5-2**

- 1. Injection well shall be completed, equipped, operated, and maintained in a manner that will prevent pollution and damage to any USDW, or other resources and will confine injected fluids to the interval approved.**
- 2. The application for an injection well shall include a properly completed Form DOGM-UIC-1 and the following:**

- 2.1 A plat showing the location of the injection well, all abandoned or active wells within a one-half mile radius of the proposed wells, and the surface owner and the operator of any lands or producing leases, respectively, within a one-half mile radius of the proposed injection well.**

See Attachments A and B.

- 2.2 Copies of electrical or radioactive logs, including gamma ray logs, for the proposed well run prior to the installation of casing and indicating resistivity, spontaneous potential, caliper and porosity.**

All logs are on file with the Utah Division of Oil, Gas and Mining.

- 2.3 A copy of a cement bond or comparable log run for the proposed injection well after casing was set and cemented.**

A copy of the cement bond log is on file with the Utah Division of Oil, Gas and Mining.

- 2.4 Copies of logs already on file with the Division should be referenced, but need not be refiled.**

All copies of logs are on file with the Utah Division of Oil, Gas and Mining.

- 2.5 A description of the casing or proposed casing program of the injection well and of the proposed method for testing the casing before use of the well.**

The casing program is 8-5/8", 24# surface casing run to 323' KB, and 5-1/2", 15.5# casing run from surface to 5718' KB. A casing integrity test will be conducted at the time of conversion. See Attachment E.

- 2.6 A statement as to the type of fluid to be used for injection, its source and estimated amounts to be injected daily.**

The primary type and source of fluid to be used for injection will be culinary water commingled with produced water. The estimated average rate of injection will be 300 BPD, and the estimated maximum rate of injection will be 500 BPD.

- 2.7 Standard laboratory analysis of the fluid to be injected, the fluid in the formation into which the fluid is being injected, and the compatibility of the fluids.**

See Attachment F.



**The proposed average and maximum injection pressures.**

The proposed average injection pressure will be approximately 1100 psig and the maximum injection pressure will not exceed 1875 psig.

**2.8 Evidence and data to support a finding that the proposed injection well will not initiate fractures through the overlying strata or a confining interval that could enable the injected fluid or formation fluid to enter the fresh water strata.**

The minimum fracture gradient for the Federal #13-23-9-16, for existing perforations (4600' - 5548') calculates at 0.82 psig/ft. The maximum injection pressures will be limited so as not to exceed this gradient. A step rate test will be performed periodically to ensure we are below parting pressure. The proposed maximum injection pressure is 1875 psig. We may add additional perforations between 3360' and 5735'. See Attachments G and G-1.

**2.9 Appropriate geological data on the injection interval and confining beds, including the geologic name, lithologic description, thickness, depth, and lateral extent.**

In the Federal #13-23-9-16, the proposed injection zone (3682' - 5673') is in the Garden Gulch to the Basal Carbonate of the Green River Formation. The reservoir is a very fine-grained sandstone with minor imbedded shale streaks. The estimated porosity is 13%. The members are composed of porous and permeable lenticular calcareous sandstone and low porosity carbonates and calcareous shale. The porous and lenticular sandstone varies in thickness from 0-31' and is confined to the Monument Butte Federal Field. Outside the Monument Butte Federal Field, the sandstone is composed of tight, very fine, silty, calcareous sandstone, less than 3' thick. The stratum confining the injection zone is composed of tight, moderately calcareous, sandy lacustrine shale. All of the confining strata are impermeable, and will effectively seal off the oil, gas, and water of the injection zone from any strata directly above or below it.

**2.10 A review of the mechanical condition of each well within a one-half mile radius of the proposed injection well to assure that no conduit exists that could enable fluids to migrate up or down the wellbore and enter the improper intervals.**

See Attachments E through E-13.

Additionally, the injection system will be equipped with high and low pressure shut down devices that will automatically shut in injection waters if a system blockage or leakage occurs. One way check valves will also ensure proper flow management. Relief valves will also be utilized for high-pressure relief.

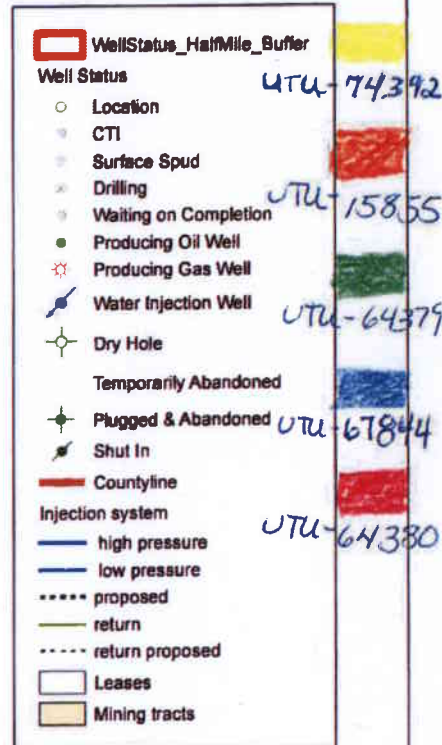
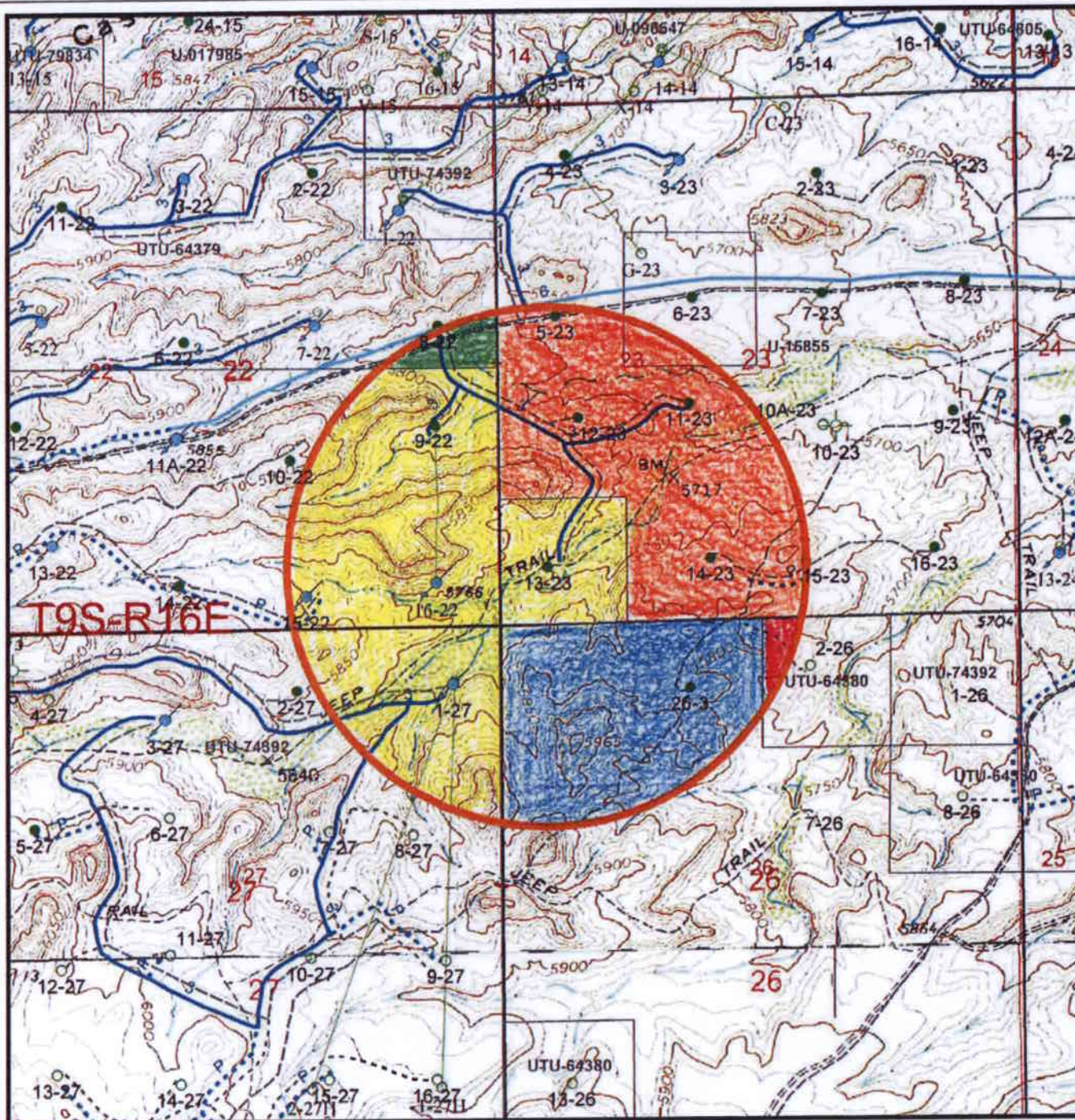
**2.11 An affidavit certifying that a copy of the application has been provided to all operators or owners, and surface owners within a one-half mile radius of the proposed injection well.**

See Attachment C.

**2.12 Any other information that the Board or Division may determine is necessary to adequately review the application.**

Newfield Production Company will supply any requested information to the Board or Division.





Federal 13-23  
Section 23, T9S-R16E

**NEWFIELD**



ROCKY MOUNTAINS 1 in = 1,500 feet

**1/2 Mile Radius Map**  
Duchesne & Uintah Counties

1001 17th Street Suite 2000  
Denver, Colorado 80202  
Phone (303) 699-0102

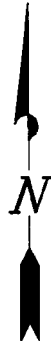
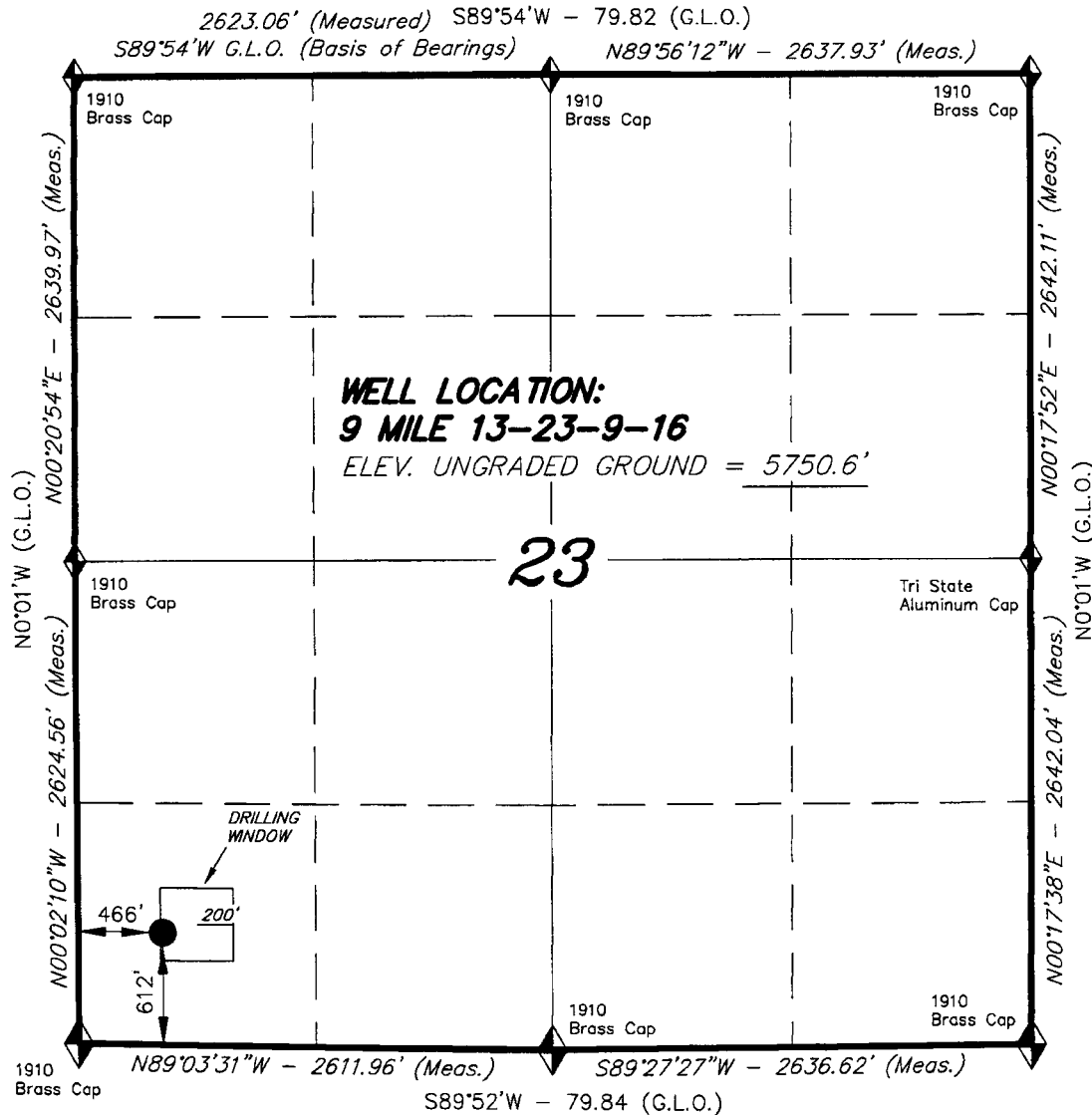
December 18, 2012



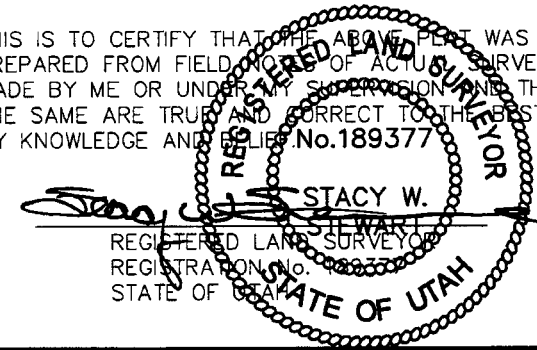
## T9S, R16E, S.L.B.&M.

## NEWFIELD PRODUCTION COMPANY

WELL LOCATION, 9 MILE 13-23-9-16,  
LOCATED AS SHOWN IN THE SW 1/4 SW  
1/4 OF SECTION 23, T9S, R16E, S.L.B.&M.  
DUCHESNE COUNTY, UTAH.



THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS  
PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS  
MADE BY ME OR UNDER MY SUPERVISION AND THAT  
THE SAME ARE TRUE AND CORRECT TO THE BEST OF  
MY KNOWLEDGE AND BELIEF. No. 189377



◆ = SECTION CORNERS LOCATED

BASIS OF ELEV;  
U.S.G.S. 7-1/2 min QUAD (MYTON SE)

**9 MILE 13-23-9-16**  
**(Surface Location) NAD 83**  
LATITUDE = 40° 00' 38.80"  
LONGITUDE = 110° 05' 39.46"

## TRI STATE LAND SURVEYING & CONSULTING

180 NORTH VERNAL AVE. - VERNAL, UTAH 84078  
(435) 781-2501

DATE SURVEYED: 4-11-06	SURVEYED BY: C.M.
DATE DRAWN: 04-24-06	DRAWN BY: F.T.M.
REVISED:	SCALE: 1" = 1000'

**EXHIBIT B**

#	Legal Description	Lessor & Expiration	Lessee & Operating Rights	Surface Owner
1	T9S-R16E SLM Section 21: S2 Section 22: NENE, S2 Section 23: SWSW Section 24: SESE Section 26: NENE Section 27: All Section 28: All	USA UTU-74392 HBP	Newfield Production Company Newfield RMI LLC ABO Petro Corp MYCO Industries Inc OXY Y-1 Company Yates Petroleum Corp	USA
2	T9S-16E SLM Section 23: E2, NW, E2SW, NWSW Section 24: N2, SW, N2SE, SWSE	USA UTU-15855 HBP	Newfield Production Company Newfield RMI LLC Bee Hive Oil LLC Journey Properties LLC King Oil & Gas of Texas LTD Six Gold Oil LLC Stone Energy Corp	USA
3	T9S-R16E SLM Section 8: SWNE, SE Section 9: SWSW Section 17: NE Section 18: E2SW, SE, LOTS 3, 4 Section 19: NE, E2NW, LOTS 1, 2 Section 21: N2 Section 22: W2NE, SENE, NW	USA UTU-64379 HBP	Newfield Production Company Newfield RMI LLC Yates Petroleum Corp	USA
4	T9S-R16E SLM Section 25: W2SW, SESW Section 26: SWNE, NW, N2SW, SESW, SE	USA UTU-67844 HBP	Gasco Production Company III Exploration Company III Exploration II LP QEP Energy Company	USA

Wapiti Oil & Gas LLC

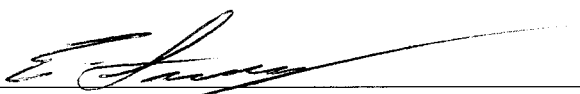
5	T9S-R16E SLM Section 25: N2, NESW, SE Section 26: NWNE, SENE, SWSW	USA UTU-64380 HBP	Newfield Production Company Newfield RMI LLC Yates Petroleum Corp	USA
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ATTACHMENT C

CERTIFICATION FOR SURFACE OWNER NOTIFICATION

RE: Application for Approval of Class II Injection Well  
Federal #13-23-9-16

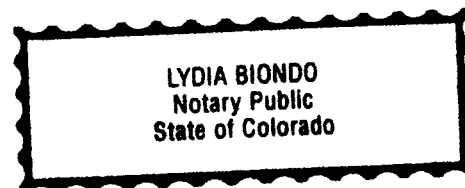
I hereby certify that a copy of the injection application has been provided to all surface owners within a one-half mile radius of the proposed injection well.

Signed:   
Newfield Production Company  
Eric Sundberg  
Environmental Manager

Sworn to and subscribed before me this 24 day of January, 2013.

Notary Public in and for the State of Colorado: Lydia Biondo

My Commission Expires: 12/31/15



## Federal 13-23-9-16

Spud Date: 10/5/07  
 Put on Production: 6/5/08  
 GL: 5751' KB: 5763'

## Wellbore Diagram

Initial Production: BOPD,  
 MCFD, BWPD

SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (312.58')  
 DEPTH LANDED: 322.58'  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sxs Class "G" crnt, circ. 4 bbls to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 150 jts. (5720.33')  
 DEPTH LANDED: 5718.33'  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 300 sxs Premilite II & 400 sxs 50/50 POZ.  
 CEMENT TOP: 118' per CBL 10/23/07

TUBING (KS 1/6/11)

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 173 jts (5443.5')  
 TUBING ANCHOR: 5443.5' KB  
 NO. OF JOINTS: 1jts (31.4')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 5477.7'  
 NO. OF JOINTS: 2 jts (63.0')  
 NOTCHED COLLAR: 2-7/8" (0.5')  
 TOTAL STRING LENGTH: EOT @ 5542'

SUCKER RODS (KS 1/6/11)

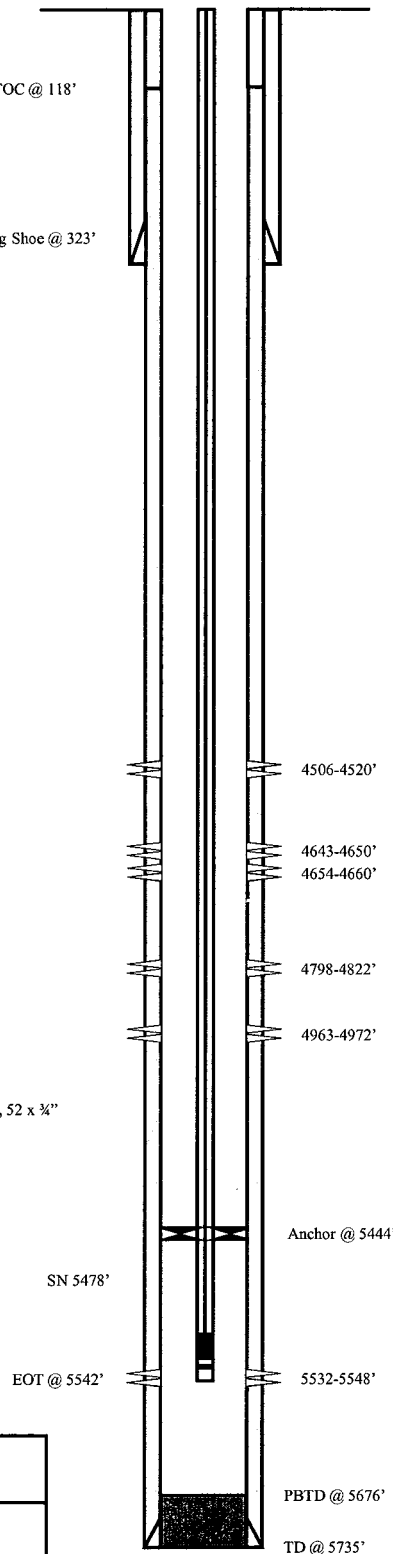
POLISHED ROD: 1-1/2" x 26' Polished Rods  
 SUCKER RODS: 3', 8' x 3/4" Pony Rods, 100 x 3/4" Guided Rods, 52 x 3/4"  
 Sucker Rods, 60 x 3/4" Guided Rods, 6 x 1-1/2" Sinker Bars  
 PUMP SIZE: 2-1/2" x 1-1/2" x 12' x 16' RHAC  
 STROKE LENGTH: 106"  
 PUMP SPEED, SPM: 4.8  
 PUMPING UNIT: LUFKIN C-228-200-74

FRAC JOB

10/26/07	5532-5548'	<b>Frac CP5 sands as follows:</b> 89901# 20/40 sand in 710 bbls Lightning 17 frac fluid. Treated @ avg press of 1990 psi w/avg rate of 24.8 BPM. ISIP 2180 psi.
10/26/07	4963-4972'	<b>Frac LODC sands as follows:</b> 56448# 20/40 sand in 493 bbl Lightning 17 frac fluid. Treated @ avg press of 2830 psi w/avg rate of 24.8 BPM. ISIP 3045 psi.
06/03/08	4798-4822'	<b>Frac A1 sands as follows:</b> 159955# 20/40 sand in 1112 bbls Lightning 17 frac fluid. Treated @ avg press of 1807 psi w/avg rate of 26.6 BPM. ISIP 1971 psi.
06/03/08	4643-4600'	<b>Frac B2 sands as follows:</b> 99834# 20/40 sand in 748 bbls Lightning 17 frac fluid. Treated @ avg press of 1930 psi w/avg rate of 25.5 BPM. ISIP 2135 psi.
06/03/08	4874-4888'	<b>Frac C sands as follows:</b> 79546# 20/40 sand in 617 bbls Lightning 17 frac fluid. Treated @ avg press of 2034 psi w/avg rate of 26.3 BPM. ISIP 1907 psi.
3/16/10		Pump change. Updated rod and tubing detail.
1/8/2011		Pump Change. Update rod and tubing details.

PERFORATION RECORD

5532-5548'	4 JSPF	64 holes
4963-4972'	4 JSPF	36 holes
4798-4822'	4 JSPF	96 holes
4654-4660'	4 JSPF	24 holes
4643-4650'	4 JSPF	28 holes
4506-4520'	4 JSPF	56 holes

**NEWFIELD****Federal 13-23-9-16**

612' FSL &amp; 466' FWL

SW/SW Section 23-T9S-R16E

Duchesne Co, Utah

API #43-013-33180; Lease # UTU-74392

KS 8/13/12

Spud Date: 1/17/08  
Put on Production: 3-5-08  
GL: 5749' KB: 5761'

## Federal 5-23-9-16

### Injection Wellbore Diagram

#### SURFACE CASING

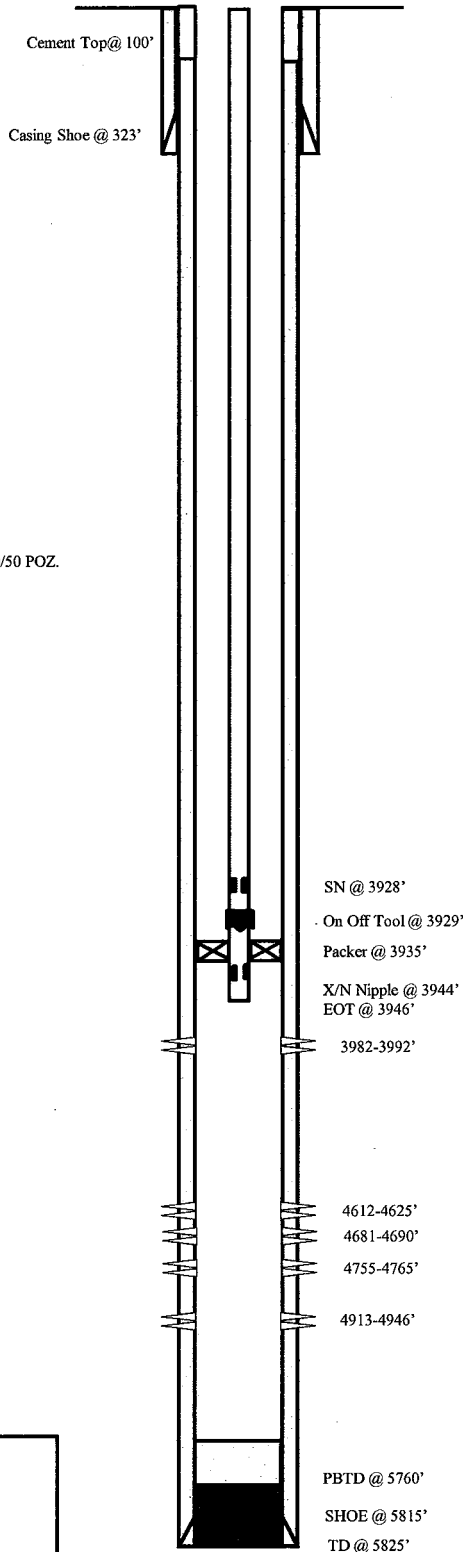
CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts. (311.39')  
HOLE SIZE: 12-1/4"  
DEPTH LANDED: 323.24'  
CEMENT DATA: 160 sxs Class "G" cmt

#### PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 146 jts. (5781.03')  
HOLE SIZE: 7-7/8"  
DEPTH LANDED: 5814.84'  
CEMENT DATA: 300 sk Prem. Lite II mixed & 400 sxs 50/50 POZ.  
CEMENT TOP AT: 100'

#### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
NO. OF JOINTS: 123 jts (3915.9')  
SEATING NIPPLE: 2-7/8" (1.10')  
SN LANDED AT: 3927.9' KB  
ON/OFF TOOL AT: 3929.0'  
ARROW #1 PACKER CE AT: 3934.8'  
XO 2-3/8 x 2-7/8 J-55 AT: 3937.7'  
TBG PUP 2-3/8 J-55 AT: 3938.2'  
X/N NIPPLE AT: 3944.4'  
TOTAL STRING LENGTH: EOT @ 3946'



#### FRAC JOB

2-27-08	4913-4946'	<b>Frac A1 sands as follows:</b> Frac with 160392 #'s of 20/40 sand in 1152 bbls Lightning 17 fluid. Treat at an ave pressure of 1802 psi @ 23.2 BPM. ISIP 2132 psi.
2-27-08	4755-4765'	<b>Frac B2 sands as follows:</b> Frac with 40119 #'s of 20/40 sand in 422 bbls Lightning 17 fluid. Treat at an ave pressure of 1740 psi @ 23.2 BPM. ISIP 1900 psi.
2-27-08	4681-4690'	<b>Frac B.5 sands as follows:</b> Frac with 15432 #'s of 20/40 sand in 275 bbls Lightning 17 fluid. Treat at an ave pressure of 2350 psi @ 23.3 BPM. ISIP 1943 psi.
2-27-08	4612-4625'	<b>Frac C sand as follows:</b> Frac with 60639 #'s of 20/40 sand in 500 bbls of Lightning 17 fluid. Treat at an ave pressure of 2137 psi @ 23.2 BPM. ISIP 2346 psi.
2-27-08	3982-3992'	<b>Frac GB6 sands as follows:</b> Frac with 46568 #'s of 20/40 sand in 418 bbls of Lightning 17 fluid. Treat at an ave pressure of 1726 psi @ 23.3 BPM. ISIP 1825 psi.
1/24/09		<b>Pump Change.</b> Updated r & t details.
12/11/12		<b>Convert to Injection Well</b>
12/12/12		<b>Conversion MIT Finalized</b> – update tbg detail

#### PERFORATION RECORD

3982-3992'	4 JSPF	40 holes
4612-4625'	4 JSPF	52 holes
4681-4690'	4 JSPF	36 holes
4755-4765'	4 JSPF	40 holes
4913-4946'	4 JSPF	132 holes

**NEWFIELD**



**Federal 5-23-9-16**  
2125' FNL & 595' FWL  
SWNW Section 23-T9S-R16E  
Duchesne Co, Utah  
API #43-013-32960; Lease #UTU-15855



## FEDERAL 11-23-9-16

Spud Date: 1-15-08  
 Put on Production: 3-7-08  
 GL: 5726' KB: 5738'

Injection Wellbore  
DiagramSURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts (309.09')  
 DEPTH LANDED: 320.94' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sxs Class "G" cmt, est 3 bbls cmt to surf.

PRODUCTION CASING

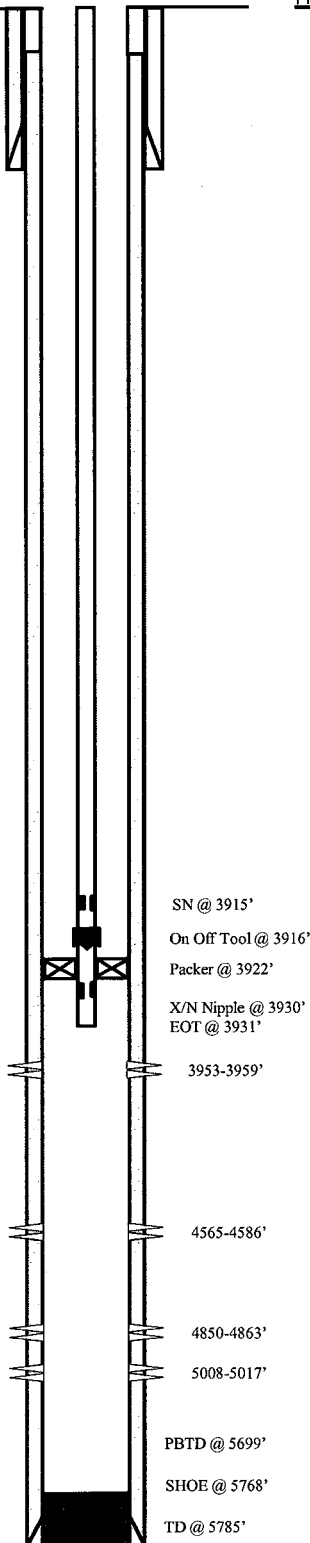
CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 134 jts (5775.25')  
 DEPTH LANDED: 5768.37' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 300 sxs Prem. Lite II mixed & 400 sxs 50/50 POZ.  
 CEMENT TOP AT: 26'

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 124 jts (3903.0')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 3915.0' KB  
 ON/OFF TOOL AT: 3916.1'  
 ARROW #1 PACKER CE AT: 3922'  
 XO 2-3/8 x 2-7/8 J-55 AT: 3925.1'  
 TBG PUP 2-3/8 J-55 AT: 3925.6'  
 X/N NIPPLE AT: 3929.8'  
 TOTAL STRING LENGTH: EOT @ 3931'

FRAC JOB

03-04-08	4565-4586'	<b>Frac C sands as follows:</b> 90836# 20/40 sand in 686 bbls Lightning 17 frac fluid. Treated @ avg press of 2017 psi w/avg rate of 23.1 BPM. ISIP 2180 psi. Calc flush: 4563 gal. Actual flush: 4477 gal.
06/05/2008	3953-3959'	<b>Frac GB6, sands as follows:</b> 16621# 20/40 sand in 206 bbls Lightning 17 frac fluid. Treated @ avg. press. of 2261 psi w/avg. rate of 15 BPM. ISIP 1696 psi.
06/05/2008	4850-4863'	<b>Frac A1, sands as follows:</b> 50043# 20/40 sand in 446 bbls Lightning 17 frac fluid. Treated @ ave. press. of 3342 psi w/avg. rate 15 BPM. ISIP 2218 psi.
06/05/2008	5008-5017'	<b>Frac LODC, sands as follows:</b> 45090# 20/40 sand in 445 bbls of Lightning 17 frac fluid. Treated @ ave. press. of 4224 psi w/avg. rate 15 BPM W/ 6.5 ppg of sand. ISIP 3173 psi.
12/13/12		<b>Convert to Injection Well</b>
12/13/12		<b>Conversion MIT Finalized – update tbg detail</b>

PERFORATION RECORD

02-29-08	4565-4586'	4 JSPF	84 holes
06-05-08	3953-3959'	4 JSPF	24 holes
06-05-08	4850-4863'	4 JSPF	52 holes
06-05-08	5008-5017'	4 JSPF	36 holes

NEWFIELD



**FEDERAL 11-23-9-16**  
 2236' FSL & 1922' FWL  
 NE/SW Section 23-T9S-R16E  
 Duchesne Co, Utah  
 API #43-013-33178; Lease # UTU-15855

## FEDERAL 12-23-9-16

Spud Date: 2/5/08  
Put on Production: 5/22/08

GL: 5774' KB: 5786'

SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 8 jts (322.64')  
DEPTH LANDED: 333'  
HOLE SIZE: 12-1/4"  
CEMENT DATA: To surface with 160 sx Class "G" cmt

PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 141 jts  
DEPTH LANDED: 5718.33' KB  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 300 sxs Prem. Lite II mixed & 400 sxs 50/50 POZ.  
CEMENT TOP: 104'

TUBING

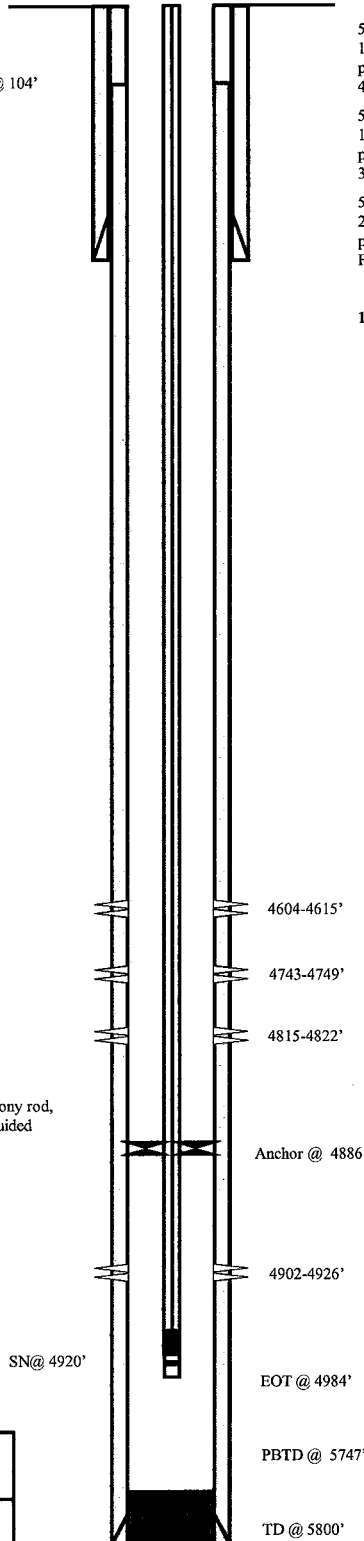
SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
NO. OF JOINTS: 155 jts (4873.6')  
TUBING ANCHOR: 4885.6' KB  
NO. OF JOINTS: 1 jts (31.45')  
SEATING NIPPLE: 2-7/8" (1.10')  
SN LANDED AT: 4919.9' KB  
NO. OF JOINTS: 2 jts (62.6')  
TOTAL STRING LENGTH: EOT @ 4984' KB

SUCKER RODS

POLISHED ROD: 1-1/2" x 26' polished rod  
SUCKER RODS: 1-8' x 3/4" pony rod, 1-6' x 3/4" pony rod, 2-8' x 3/4" pony rod,  
1-2' x 3/4" pony rod, 91- 3/4" guided rods, 58- 3/4" sucker rods, 40- 3/4" guided  
rods, 6- 1 1/2" weight bars  
PUMP SIZE: 2-1/2" x 1-1/2" x 12x 16' RHAC  
STROKE LENGTH: 72"  
PUMP SPEED, SPM: 4

## Wellbore Diagram

Cement Top @ 104'

FRAC JOB

5/17/08 4902-4926' **Frac A3 sds as follows:**  
119,316# 20/40 sand in 996 bbls of Lightning 17 fluid. Treated w/ ave  
pressure of 1818 psi w/ ave rate of 23.4 BPM. ISIP 2198 psi. Actual Flush:  
4397 gal.

5/17/08 4815-4822' **Frac A.5 sds as follows:**  
14,762# 20/40 sand in 260 bbls of Lightning 17 fluid. Treated w/ ave  
pressure of 3169 psi w/ ave rate of 23.3 BPM. ISIP 4200 psi. Actual Flush:  
3818 gal.


5/17/08 4743-4749' **Frac B2 sds as follows:**  
25,365# 20/40 sand in 342 bbls of Lightning 17 fluid. Treated w/ ave  
pressure of 2818 psi w/ ave rate of 21.6 BPM. ISIP 3290 psi. Actual  
Flush: 4238 gal.

12/12/2009

**Tubing leak.** Updated rod and tubind detail.

PERFORATION RECORD

10/23/07	4604-4615'	4 JSPF	44 holes
10/26/07	4743-4749'	4 JSPF	24 holes
10/23/07	4815-4822'	4 JSPF	28 holes
10/26/07	4902-4926'	4 JSPF	96 holes

<b>NEWFIELD</b> 
<b>FEDERAL 12-23-9-16</b> 2120' FSL & 794' FWL NW/SW Section 23-T9S-R16E Duchesne Co, Utah API #43-013-33179; Lease # UTU-15855

## Federal 14-23-9-16

Spud Date: 11-28-07  
Put on Production: 3-3-08  
GL: 5782' KB: 5794'

## Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7jts (310.88')  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 160sxs Class "G" cmt, circ 3bbls to surf

PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 133jts (5745.3')  
HOLE SIZE: 7-7/8"  
DEPTH LANDED: 5743.3'  
CEMENT DATA: 325sxs Premilite II & 400sxs 50/50 POZ.  
CEMENT TOP AT: 60' per CBL 2/20/08

TUBING (KS 12/30/09)

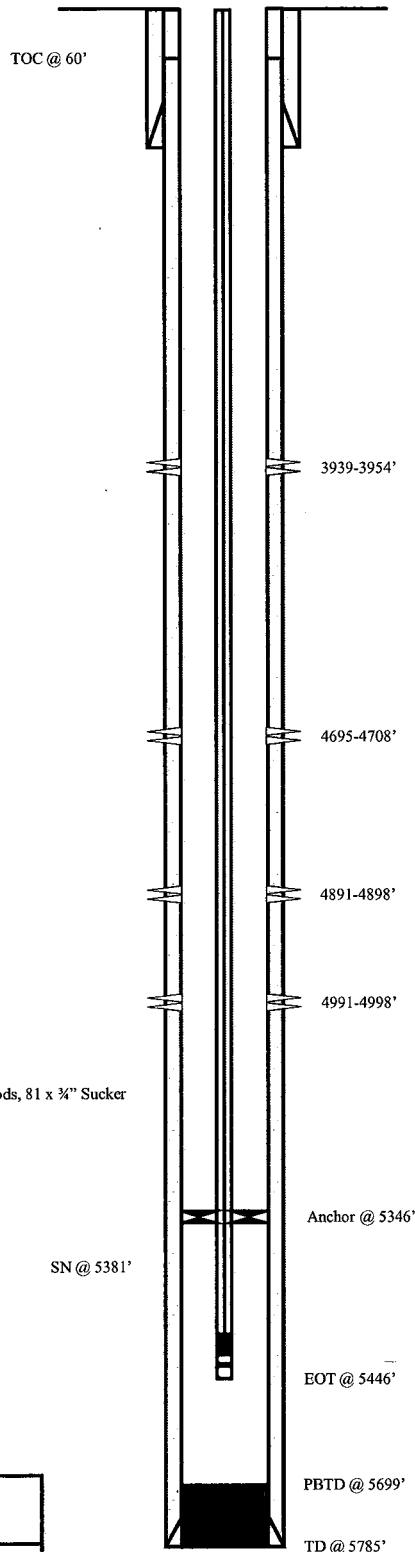
SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
NO. OF JOINTS: 168jts (5333.9')  
TUBING ANCHOR: 5345.9'  
NO. OF JOINTS: 1jt (32.5')  
SEATING NIPPLE: 2-7/8" (1.10')  
SN LANDED AT: 5381.2'  
NO. OF JOINTS: 2jts (63.1')  
TOTAL STRING LENGTH: EOT @ 5446'

SUCKER RODS (KS 12/30/09)

POLISHED ROD: 26' x 1-1/2"  
SUCKER RODS: 6' x 3/4" Pony Rod, 98 x 3/4" 4per Guided Rods, 81 x 3/4" Sucker Rods, 30 x 3/4" 4per Guided Rods, 6 x 1-1/2" Sinker Bars  
PUMP SIZE: 2-1/2" x 1-1/2" x 10' x 14" RHAC  
STROKE LENGTH: 81"  
PUMP SPEED, SPM: 4.5  
PUMPING UNIT: C-228-246-86

FRAC JOB

2-26-08	4991-4998'	<b>Frac A3 sands as follows:</b> Frac with 15465 #'s of 20/40 sand in 275 bbls Lightning 17 fluid. Treat w/ an ave pressure 2863 psi @ 23.2 BPM. ISIP 2882 psi.
2-26-08	4891-4898'	<b>Frac A1 sands as follows:</b> Frac with 15196 #'s of 20/40 sand in 282 bbls Lightning 17 fluid. Treat w/ an ave pressure 2226 psi @ 23.2 BPM. ISIP 2125 psi.
2-26-08	4695-4708'	<b>Frac B2 sands as follows:</b> Frac with 30350 #'s of 20/40 sand in 381 bbls Lightning 17 fluid. Treat w/ an ave pressure of 2054 psi @ 23.2 BPM. ISIP 2054 psi.
2-26-08	3939-3954'	<b>Frac GB6 sand as follows:</b> Frac with 93199 #'s of 20/40 sand in 674 bbls Lightning 17 fluid. Treat w/ an ave pressure of 1568 psi @ 23.2 BPM. ISIP 1641 psi.

PERFORATION RECORD

3939-3954'	4 JSPF	60 holes
4695-4708'	4 JSPF	52 holes
4891-4898'	4 JSPF	28 holes
4991-4998'	4 JSPF	28 holes

NEWFIELD

**Federal 14-23-9-16**  
658' FSL & 2145' FWL  
SESW Section 23-T9S-R16E  
Duchesne Co, Utah  
API #43-013-33181; Lease #UTU-15855

## FEDERAL 15-23-9-16

Spud Date: 11/26/07

Put on Production: 3/14/08

GL: 5784' KB: 5796'

Initial Production: BOPD,  
MCFD, BWPD

## Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"

GRADE: J-55

WEIGHT: 24#

LENGTH: 7 jts. (310.15')

DEPTH LANDED: 322.00' KB

HOLE SIZE: 12-1/4"

CEMENT DATA: 1- 160, sxs Class "G" cmt, est 5 bbls cmt to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2"

GRADE: J-55

WEIGHT: 15.5#

LENGTH: 136 jts. (5779.63') Includes Shoe Jt. (43.42')

DEPTH LANDED: 5792.88' KB

HOLE SIZE: 7-7/8"

CEMENT DATA: 300 sxs Prem. Lite II mixed &amp; 400 sxs 50/50 POZ.

CEMENT TOP: 156'

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#

NO. OF JOINTS: 158 jts (4964.4')

TUBING ANCHOR: 4976.4' KB

NO. OF JOINTS: 1 jts (31.4')

SEATING NIPPLE: 2-7/8" (1.10')

SN LANDED AT: 5010.6' KB

NO. OF JOINTS: 2 jts (62.7')

TOTAL STRING LENGTH: EOT @ 5075' KB

SUCKER RODS

POLISHED ROD: 1-1/2" x 26' SM polished rods

SUCKER RODS: 1 - 3/4" = 2' pony rods; 194 - 3/4" = 4850' guided rods; 6-1 1/2" = 150' weight rods.

PUMP SIZE: CDI 2-1/2" x 1-1/2" x 14x 18' RHAC

STROKE LENGTH: 102"

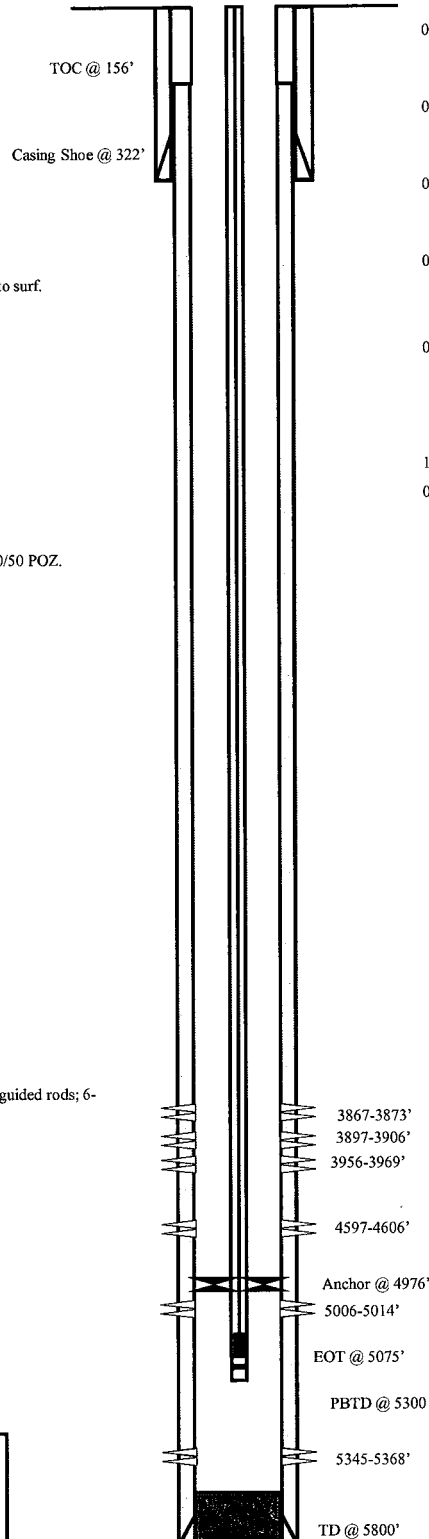
PUMP SPEED, 5 SPM:

FRAC JOB

01/07/08	5345-5368'	<b>Frac CP2 sands as follows:</b> 73000# 20/40 sand in 603 bbls Lightning 17 frac fluid. Treated @ avg press of 1939 psi w/avg rate of 23.2 BPM. ISIP 2177 psi.
03/11/08	5006-5014'	<b>Frac LODC sands as follows:</b> 40149# 20/40 sand in 417 bbl Lightning 17 frac fluid. Treated @ avg press of 2660 psi w/avg rate of 26.2 BPM. ISIP 3080 psi.
03/11/08	4597-4606'	<b>Frac C sands as follows:</b> 15394# 20/40 sand in 262 bbls Lightning 17 frac fluid. Treated @ avg press of 2078 psi w/avg rate of 23.3 BPM. ISIP 2078 psi.
03/11/08	3956-3969'	<b>Frac GB6 sands as follows:</b> 79237# 20/40 sand in 602 bbls Lightning 17 frac fluid. Treated @ avg press of 1468 psi w/avg rate of 26.2 BPM. ISIP 1460 psi.
03/11/08	3867-3906'	<b>Frac GB4 &amp; GB2 sands as follows:</b> 25572# 20/40 sand in 325 bbls Lightning 17 frac fluid. Treated @ avg press of 1710 psi w/avg rate of 25.9 BPM. ISIP 1585 psi.
12/30/08		Parted rods. Updated r & t details.
02/03/11		Tubing Leak. Updated R & T details.

PERFORATION RECORD

5345-5368'	4 JSPF	92 holes
5006-5014'	4 JSPF	32 holes
4597-4606'	4 JSPF	36 holes
3956-3969'	4 JSPF	52 holes
3897-3906'	4 JSPF	36 holes
3867-3873'	4 JSPF	24 holes



NEWFIELD

**Federal 15-23-9-16**

603' FSL &amp; 2162' FEL (SW/SE)

Section 23, T9S, R16E

Duchesne County, Utah

API #43-013-33182; Lease # UTU-15855

## Federal 8-22-9-16

Spud Date: 11/01/06  
Put on Production: 12/13/06

K.B.: 5791, G.L.: 5779

**SURFACE CASING**

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts. (310.68')  
DEPTH LANDED: 322.53' KB  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 160 sxs Class "G" cmt, est 5 bbls cmt to surf.

**PRODUCTION CASING**

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 133 jts. (5837.43')  
DEPTH LANDED: 5850.68' KB  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 322 sxs Prem. Lite II mixed & 450 sxs 50/50 POZ.  
CEMENT TOP: 60'

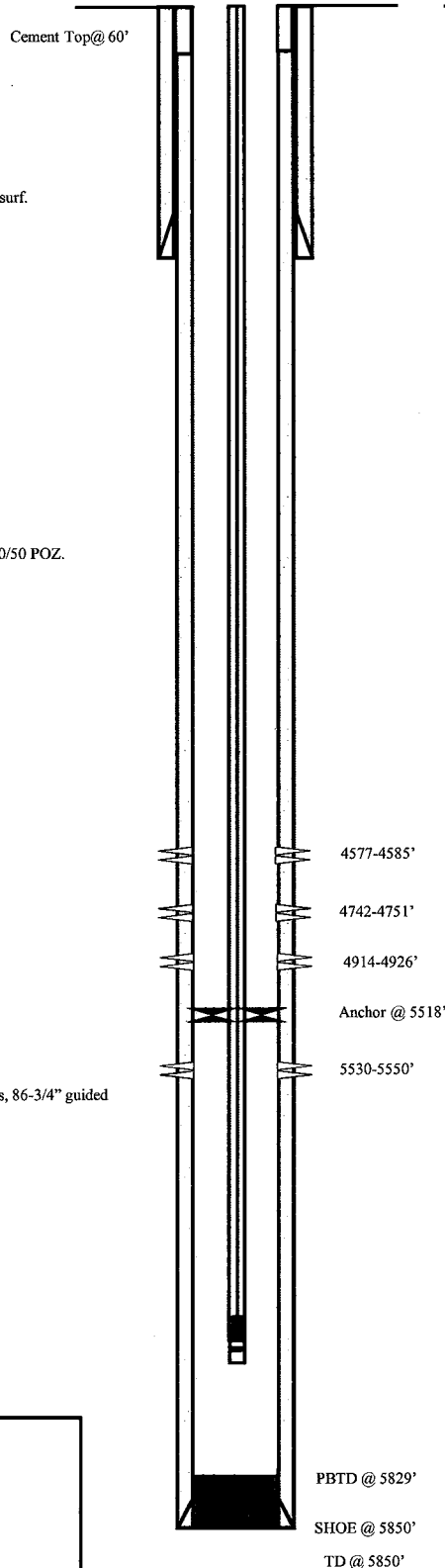
**TUBING**

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
NO. OF JOINTS: 175 jts (5517.93')  
TUBING ANCHOR: 5517.90' KB  
NO. OF JOINTS: 1 jts (31.70')  
SEATING NIPPLE: 2-7/8" (1.10')  
SN LANDED AT: 5552.4' KB  
NO. OF JOINTS: 2 jts (63.10')  
TOTAL STRING LENGTH: EOT @ 5617' KB

**SUCKER RODS**

POLISHED ROD: 1-1/2" x 22' SM  
SUCKER RODS: 2-8' x 3/4" pony rod, 100-3/4" guided rods, 86-3/4" guided rods, 30-3/4" guided rods, 6-1 1/2" weight rods.  
PUMP SIZE: 2-1/2" x 1-1/2" x 14" RHAC w/SM plunger  
STROKE LENGTH: 61"  
PUMP SPEED, 5 SPM:

## Wellbore Diagram



Initial Production: BOPD,  
MCFD, BWPD

**FRAC JOB**

12/08/06	5530-5550'	<b>Frac CP4, sands as follows:</b> 30245# 20/40 sand in 381 bbls Lightning 17 frac fluid. Treated @ avg press of 2020 psi w/avg rate of 25 BPM. ISIP 1960 psi. Calc flush: 5548 gal. Actual flush: 4998 gal.
12/08/06	4914-4926'	<b>Frac A1 sands as follows:</b> 70951# 20/40 sand in 533 bbls Lightning 17 frac fluid. Treated @ avg press of 1762 psi w/avg rate of 25 BPM. ISIP 2190 psi. Calc flush: 4924 gal. Actual flush: 4452 gal.
12/08/06	4742-4751'	<b>Frac B2 sands as follows:</b> 29729# 20/40 sand in 414 bbls Lightning 17 frac fluid. Treated @ avg press of 2490 psi w/avg rate of 25 BPM. ISIP 1950 psi. Calc flush: 4749 gal. Actual flush: 4242 gal.
12/08/06	4577-4585'	<b>Frac C sands as follows:</b> 26560# 20/40 sand in 342 bbls Lightning 17 frac fluid. Treated @ avg press of 2804 psi w/avg rate of 25 BPM. ISIP psi. Calc flush: 4583 gal. Actual flush: 4242 gal.
07/16/10		Pump Change. Rod & Tubing detail.

**PERFORATION RECORD**

12/05/06	5530-5550'	4 JSPF	80 holes
12/08/06	4914-4926'	4 JSPF	48 holes
12/08/06	4742-4751'	4 JSPF	36 holes
12/08/06	4577-4585'	4 JSPF	32 holes



**Federal 8-22-9-16**

2200' FNL & 618' FEL

SE/NE Section 22-T9S-R16E

Duchesne Co, Utah

API #43-013-32959; Lease #UTU-64379

TW 09/14/10

Federal 9-22-9-16

Spud Date: 4-19-2007  
Put on Production: 6-08-2007  
GL: 5803' KB: 5815'

## Wellbore Diagram

Initial Production: BOPD,  
MCFD, BWPD

### SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7jts (312.91')  
DEPTH LANDED: 322.91'  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 160sxs Class "G" cmt, circ 5 bbls to surf.

### PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 133jts (5855.48')  
DEPTH LANDED: 5852.48'  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 325sxs Premlite II & 425sxs 50/50 POZ.  
CEMENT TOP AT: 68' per CBL 5/30/07

### TUBING (KS 10/5/11)

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
NO. OF JOINTS: 182jts (5607.7')  
TUBING ANCHOR: 5619.7'  
NO. OF JOINTS: 1jt (28.3')  
SEATING NIPPLE: 2-7/8" (1.10')  
SN LANDED AT: 5650.9'  
NO. OF JOINTS: 2jts (60.9')  
TOTAL STRING LENGTH: EOT @ 5713'

### SUCKER RODS (KS 10/5/11)

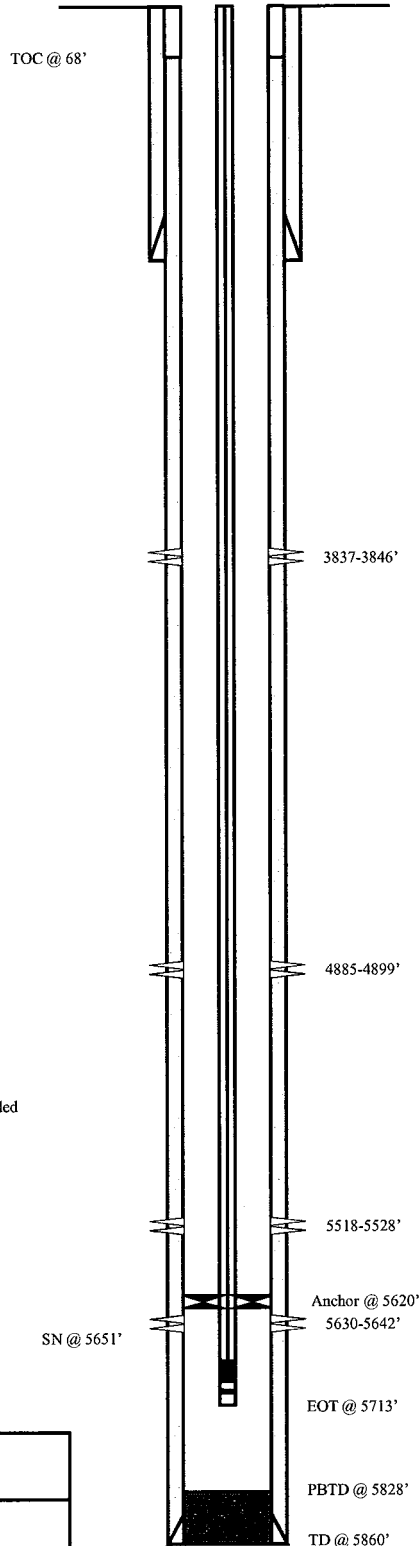
POLISHED ROD: 26' x 1-1/2"  
SUCKER RODS: 2', 4', 6', 8' x 3/4" Pony Rods, 99 x 3/4" Guided Rods, 69 x 3/4" Sucker Rods, 50 x 3/4" Guided Rods, 6 x 1-1/2" Sinker Bars  
PUMP SIZE: 2-1/2" x 1-1/4" x 16' x 22' RHAC  
STROKE LENGTH: 120"  
PUMP SPEED, SPM: 4.7  
PUMPING UNIT: DARCO C-320-256-120


### FRAC JOB

06-05-07	5630-5642'	<b>Frac CP5 sands as follows:</b> 39984# 20/40 sand in 405 bbls Lightning 17 frac fluid. Treated @ avg press of 1953 psi w/avg rate of 24.7 BPM. ISIP 2165 psi. Calc flush: 5328 gal. Actual flush: 5208 gal.
06-05-07	5518-5528'	<b>Frac CP4 sands as follows:</b> 25037# 20/40 sand in 336 bbls Lightning 17 frac fluid. Treated @ avg press of 2283 psi w/avg rate of 24.7 BPM. ISIP 2241 psi. Calc flush: 5516 gal. Actual flush: 4998 gal.
06-05-07	4885-4899'	<b>Frac A1 sands as follows:</b> 59792# 20/40 sand in 485 bbls Lightning 17 frac fluid. Treated @ avg press of 1701 psi w/avg rate of 24.7 BPM. ISIP 2240 psi. Calc flush: 4883 gal. Actual flush: 4368 gal.
06-05-07	3837-3846'	<b>Frac GB2 sands as follows:</b> 35741# 20/40 sand in 345 bbls Lightning 17 frac fluid. Treated @ avg press of 1806 w/avg rate of 24.7 BPM. ISIP 2950 psi. Calc flush: 3835 gal. Actual flush: 3738 gal.
12-13-07		Pump Change. Updated rod & tubing details.
1-30-08		Pump Change. Updated rod & tubing details.
8-29-08		Pump Change. Updated rod & tubing details.
1/23/09		Pump Change. Updated r & t details.
10/05/11		Pump Change. Rods & tubing updated.

### PERFORATION RECORD

05-30-07	5630-5642'	4 JSPF	48 holes
06-05-07	5518-5528'	4 JSPF	40 holes
06-05-07	4885-4899'	4 JSPF	96 holes
06-05-07	3837-3846'	4 JSPF	36 holes



<b>NEWFIELD</b> 
<b>Federal 9-22-9-16</b> 2079' FSL & 668' FEL NE/SE Section 22-T9S-R16E Duchesne Co, Utah API # 43-013-33175; Lease # UTU-74392

## FEDERAL 10-22-9-16

Spud Date: 04/26/07  
Put on Production: 06/29/07

GL: 5955' KB: 5967'

**SURFACE CASING**

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts. (310.97')  
DEPTH LANDED: 322.82' KB  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 160 sxs Class "G" cmt, est 6 bbls cmt to surf.

**PRODUCTION CASING**

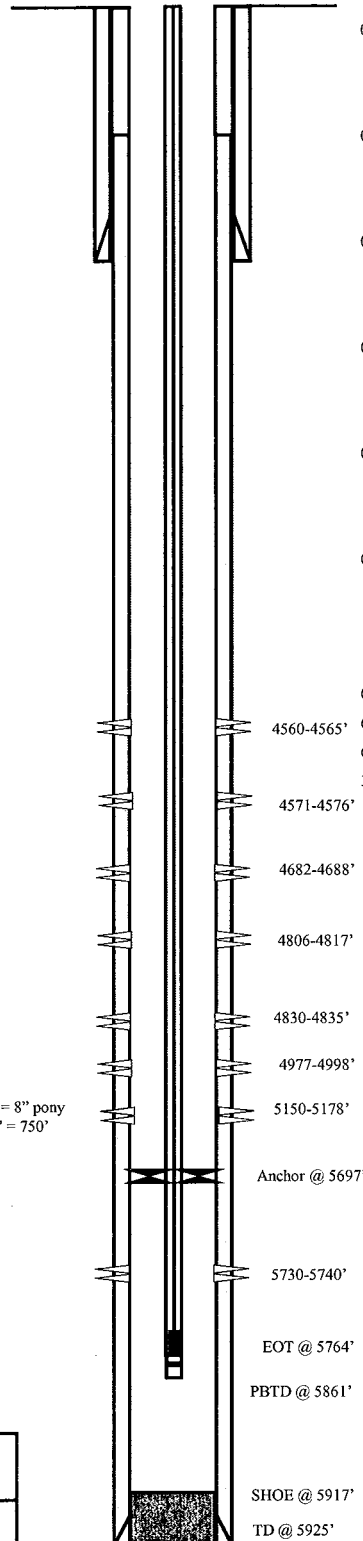
CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 133 jts. (5904.01')  
DEPTH LANDED: 5917.26' KB  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 300 sxs Prem. Lite II mixed & 425 sxs 50/50 POZ.  
CEMENT TOP: 160'

**TUBING**

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
NO. OF JOINTS: 182 jts (5685.0')  
TUBING ANCHOR: 5697.0' KB  
NO. OF JOINTS: 1 jts (31.4')  
SEATING NIPPLE: 2-7/8" (1.10')  
SN LANDED AT: 5731.2' KB  
NO. OF JOINTS: 1 jts (31.7')  
TOTAL STRING LENGTH: EOT @ 5764' KB

**SUCKER RODS**

POLISHED ROD: 1-1/2" x 26' SM polished rods  
SUCKER RODS: 2 x 3/4" - 8' pony rod, 1 x 3/4" = 6' pony rod, 1 x 3/4" = 8" pony rod, 98-3/4" = 2450' guided rods, 93- 3/4" = 2325' sucker rods, 30- 3/4" = 750' guided rods, 6-1 1/2" = 150' weight bars  
PUMP SIZE: 2 1/2" x 1 1/4" x 12 x 16" RHAC  
STROKE LENGTH: 86"  
PUMP SPEED, SPM: 5

**Wellbore Diagram****FRAC JOB**

06/25/07 5730-5740' **Frac CP5 sands as follows:**  
40069# 20/40 sand in 408 bbls Lightning 17 frac fluid. Treated @ avg press of 1945 psi w/avg rate of 24.7 BPM. ISIP 2163 psi. Calc flush: 5728 gal. Actual flush: 5208 gal.

06/26/07 5150-5178' **Frac LODC sands as follows:**  
126558# 20/40 sand in 899 bbls Lightning 17 frac fluid. Treated @ avg press of 2216 psi w/avg rate of 24.7 BPM. ISIP 2676 psi. Calc flush: 5148 gal. Actual flush: 4662 gal.

06/26/07 4977-4998' **Frac A1 sands as follows:**  
94957# 20/40 sand in 708 bbls Lightning 17 frac fluid. Treated @ avg press of 1623 psi w/avg rate of 24.7 BPM. ISIP 1945 psi. Calc flush: 4975 gal. Actual flush: 4494 gal.

06/26/07 4806-4835' **Frac B2 & B1 sands as follows:**  
61885# 20/40 sand in 508 bbls Lightning 17 frac fluid. Treated @ avg press of 1689 psi w/avg rate of 24.7 BPM. ISIP 1825 psi. Calc flush: 4804 gal. Actual flush: 4326 gal.


06/26/07 4682-4688' **Frac D3 sands as follows:**  
12609# 20/40 sand in 241 bbls Lightning 17 frac fluid. Treated @ avg press of 2133 psi w/avg rate of 24.7 BPM. ISIP 1776 psi. Calc flush: 4680 gal. Actual flush: 4221 gal.

06/26/07 4560-4565' **Frac D1 sands as follows:**  
16073# 20/40 sand in 246 bbls Lightning 17 frac fluid. Treated @ avg press of 1881 psi w/avg rate of 24.7 BPM. ISIP 1857 psi. Calc flush: 4558 gal. Actual flush: 4494 gal.

05/28/08 pump change. Updated rod and tubing details  
6/21/2010 Parted rods. Updated rod and tubing detail.  
6/23/2010 Parted rods. Updated rod and tubing detail.  
3/15/11 Parted rods. Updated rod and tubing detail.

**PERFORATION RECORD**

Date	Depth Range	Tool	Holes
06/21/07	5730-5740'	4 JSPF	40 holes
06/25/07	5150-5178'	4 JSPF	112 holes
06/26/07	4977-4998'	4 JSPF	84 holes
06/26/07	4830-4835'	4 JSPF	20 holes
06/26/07	4806-4817'	4 JSPF	44 holes
06/26/07	4682-4688'	4 JSPF	24 holes
06/26/07	4571-4576'	4 JSPF	20 holes
06/26/07	4560-4565'	4 JSPF	20 holes

<b>NEWFIELD</b> 
<b>FEDERAL 10-22-9-16</b> 1736'FSL & 2137' FEL NW/SE Section 22-T9S-R16E Duchesne Co, Utah API #43-013-33166; Lease # UTU-74392

## Federal 15-22-9-16

Spud Date: 4/17/2007

Put on Production: 6-18-2007

GL: 5846' KB: 5858'

Injection Wellbore  
DiagramSURFACE CASING

CSG SIZE: 8-5/8"

GRADE: J-55

WEIGHT: 24#

LENGTH: 7 jts (304.31')

DEPTH LANDED: 316.16' KB

HOLE SIZE: 12-1/4"

CEMENT DATA: 160 sxs Class "G" cmt, est 5 bbls cmt to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2"

GRADE: J-55

WEIGHT: 15.5#

LENGTH: 133 jts (5764.96')

DEPTH LANDED: 5768.96' KB

HOLE SIZE: 7-7/8"

CEMENT DATA: 325 sxs Prem. Lite II mixed &amp; 425 sxs 50/50 POZ.

CEMENT TOP AT: Surface'

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#

NO. OF JOINTS: 142 jts (4360.1')

SEATING NIPPLE: 2-7/8" (1.10')

SN LANDED AT: 4372.1' KB

ON/OFF TOOL AT: 4373.2'

SEAL NIPPLE LANDED AT: 4374.6' KB

ARROW #1 PACKER CE AT: 4378.09'

XO 2-3/8 x 2-7/8 J-55 AT: 4381.9'

TBG PUP 2-3/8 J-55 AT: 4382.4'

X/N NIPPLE AT: 4386.5'

TOTAL STRING LENGTH: EOT @ 4388'

FRAC JOB

06-11-07 5574-5582'

**Frac CP5 sands as follows:**

19614# 20/40 sand in 325 bbls Lightning 17 frac fluid. Treated @ avg press of 2433 psi w/avg rate of 24.8 BPM. ISIP 2430 psi. Calc flush: 5572 gal. Actual flush: 5124 gal.

06-11-07 5330-5415'

**Frac CP3, CP2, & CP1 sands as follows:**

34912# 20/40 sand in 403 bbls Lightning 17 frac fluid. Treated @ avg press of 2224 psi w/avg rate of 24.8 BPM. ISIP 1976 psi. Calc flush: 4328 gal. Actual flush: 4872 gal.

06-11-07 4852-4864'

**Frac A1 sands as follows:**

19473# 20/40 sand in 287 bbls Lightning 17 frac fluid. Treated @ avg press of 1777 psi w/avg rate of 24.8 BPM. ISIP 1860 psi. Calc flush: 4850 gal. Actual flush: 4410 gal.

06-11-07 4656-4662'

**Frac B1 sands as follows:**

14664# 20/40 sand in 237 bbls Lightning 17 frac fluid. Treated @ avg press of 1924 w/ avg rate of 24.8 BPM. ISIP 1720 psi. Calc flush: 4654 gal. Actual flush: 4200 gal.

06-11-07 4425-4431'

**Frac D1 sands as follows:**

22099# 20/40 sand in 274 bbls Lightning 17 frac fluid. Treated @ avg press of 2182 w/ avg rate of 24.8 BPM. ISIP 1700 psi. Calc flush: 4423 gal. Actual flush: 3948 gal.

7/23/07

**Pump change:** Updated rod & tuning detail.

05/29/08

**Pump change:** Updated rod and tubing detail.

5/11/09

**Tubing Leak.** Updated r & t details.

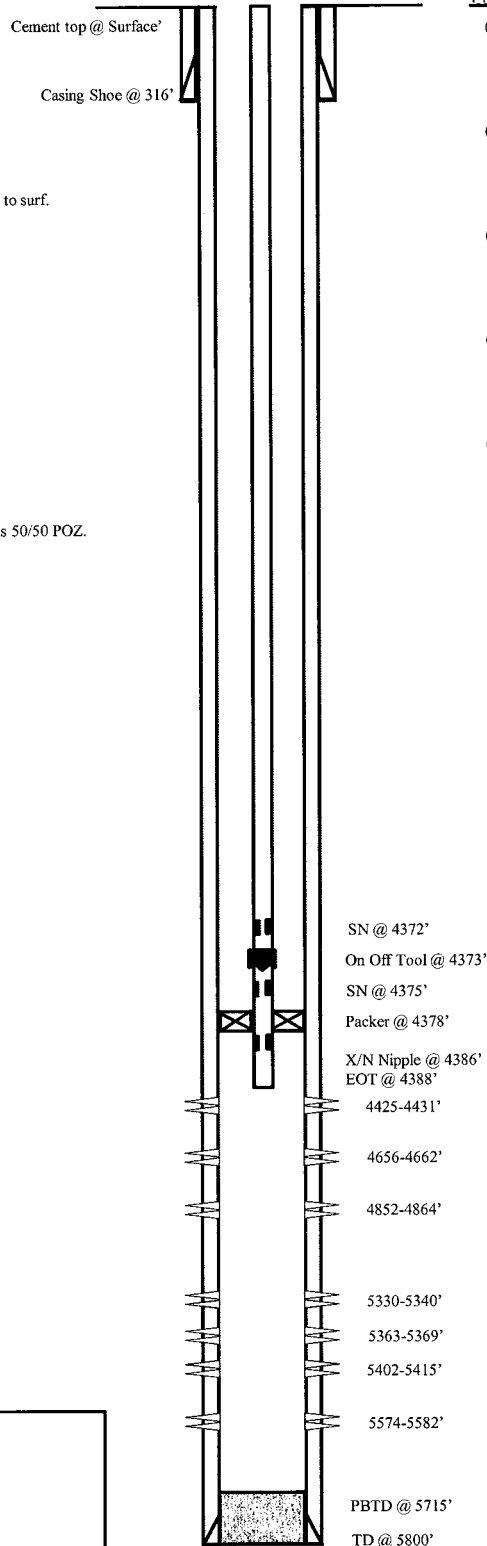
12/03/12

**Convert to Injection Well**

12/04/12

**Conversion MIT Finalized** – update tbg detailPERFORATION RECORD

06-07-07	5574-5582'	4 JSPF	32 holes
06-11-07	5402-5415'	4 JSPF	52 holes
06-11-07	5363-5369'	4 JSPF	24 holes
06-11-07	5330-5340'	4 JSPF	40 holes
06-11-07	4852-4864'	4 JSPF	48 holes
06-11-07	4656-4662'	4 JSPF	24 holes
06-11-07	4425-4431'	4 JSPF	24 holes

**NEWFIELD****Federal 15-22-9-16**

355' FSL &amp; 1987' FEL

SW/SE Section 22-T9S-R16E

Duchesne Co, Utah

API # 43-013-33167; Lease # UTU-74392



## FEDERAL 16-22-9-16

Spud Date: 08/27/07  
 Put on Production: 10/10/07  
 GL: 5800' KB: 5812'

Injection Wellbore  
DiagramSURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (293.76')  
 DEPTH LANDED: 305.61' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sxs Class "G" cmt, est 6 bbls cmt to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: ? jts. (')  
 DEPTH LANDED: 6051' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 350 sxs Prem. Lite II mixed & 525 sxs 50/50 POZ.  
 CEMENT TOP: 39'

TUBING

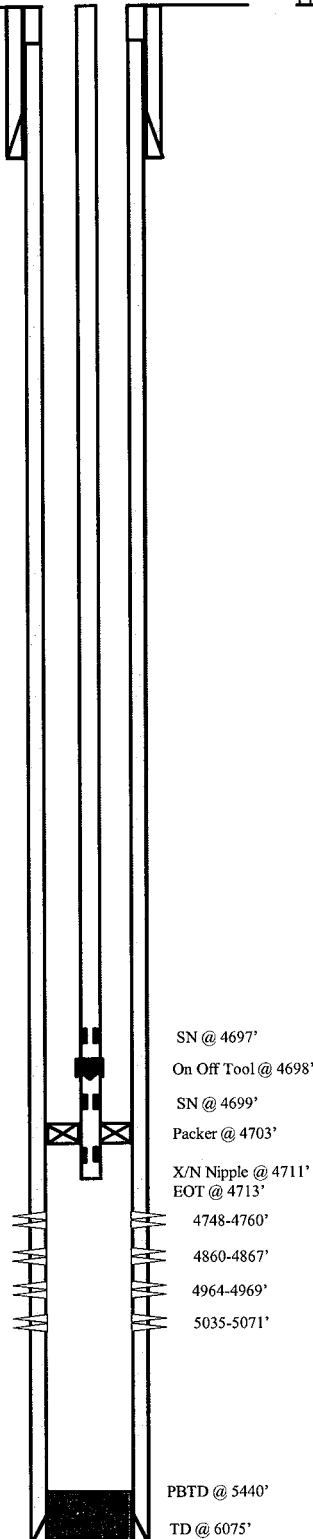
SIZE/GRADE/WT.: 2-7/8" / N-80 / 6.5#  
 NO. OF JOINTS: 42 jts (1309')  
 SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 108 jts (3375.7')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 4696.7' KB  
 ON/OFF TOOL AT: 4697.8'  
 X-SEAL LANDED AT: 4699.3' KB  
 ARROW #1 PACKER CE AT: 4703.09'  
 XO 2-3/8 x 2-7/8 J-55 AT: 4706.6'  
 TBG PUP 2-3/8 J-55 AT: 4707.1'  
 X/N NIPPLE AT: 4711.1'  
 TOTAL STRING LENGTH: EOT @ 4713'

FRAC JOB

10/05/07	5035-5071'	<b>Frac A1 sands as follows:</b> 140366# 20/40 sand in 1008 bbl Lightning 17 frac fluid. Treated @ avg press of 1851 psi w/avg rate of 24.8 BPM. ISIP 2081 psi. Calc flush: 5033 gal. Actual flush: 4536 gal.
10/06/07	4964-4969'	<b>Frac A.5 sands as follows:</b> 15004# 20/40 sand in 274 bbls Lightning 17 frac fluid. Treated @ avg press of 2605 psi w/avg rate of 24.8 BPM. ISIP 1909 psi. Calc flush: 4962 gal. Actual flush: 4556 gal.
10/05/07	4860-4867'	<b>Frac B2 sands as follows:</b> 13965# 20/40 sand in 269 bbls Lightning 17 frac fluid. Treated @ avg press of 2130 psi w/avg rate of 24.8 BPM. ISIP 1925 psi. Calc flush: 4858 gal. Actual flush: 4355 gal.
10/05/07	4748-4760'	<b>Frac C sands as follows:</b> 41811# 20/40 sand in 406 bbls Lightning 17 frac fluid. Treated @ avg press of 2620 psi w/avg rate of 24.8 BPM. ISIP 2235 psi. Calc flush: 4746 gal. Actual flush: 4662 gal.
6/17/08		<b>Parted rods.</b> Updated rod and tubing detail
11/19/08		<b>Pump Change.</b> Updated rod & tubing details.
2/13/09		<b>Tubing Leak.</b> Updated r & t details.
6/18/2010		<b>Tubing leak.</b> Updated rod and tubing detail.
11/21/12		<b>Convert to Injection Well</b>
11/27/12		<b>Conversion MIT Finalized</b> - update tbg detail

PERFORATION RECORD

10/02/07	5035-5071'	4 JSPF	144 holes
10/05/07	4964-4969'	4 JSPF	20 holes
10/05/07	4860-4867'	4 JSPF	28 holes
10/05/07	4748-4760'	4 JSPF	48 holes

**NEWFIELD****FEDERAL 16-22-9-16**

2068' FSL & 649' FEL  
 NE/SE Section 22-T9S-R16E  
 Duchesne Co, Utah  
 API #43-013-33394; Lease # UTU-74392

## Federal 1-27-9-16

Spud Date: 12/22/2009

Put on Production: 5/22/2009

GL: 5797 ' KB: 5809'

### Injection Wellbore Diagram

#### SURFACE CASING

CSG SIZE: 8-5/8"

GRADE: J-55

WEIGHT: 24#

LENGTH: 7 jts (315.63')

DEPTH LANDED: 327.48' KB

HOLE SIZE: 12-1/4"

CEMENT DATA: 160 sx class 'g' cmt

#### PRODUCTION CASING

CSG SIZE: 5-1/2"

GRADE: J-55

WEIGHT: 15.5#

DEPTH LANDED: 5693.75

HOLE SIZE: 7-7/8"

CEMENT DATA: 300 sx primlite and 400 sx 50/50 poz

CEMENT TOP AT: 130'

#### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#

NO. OF JOINTS: 143 jts (4412.8')

SEATING NIPPLE: 2-7/8" (1.10')

SN LANDED AT: 4424.8' KB

ON/OFF TOOL AT: 4425.9'

ARROW #1 PACKER CE AT: 4431.11'

XO 2-3/8 x 2-7/8 J-55 AT: 4435.1'

TBG PUP 2-3/8 J-55 AT: 4435.6'

X/N NIPPLE AT: 4439.7'

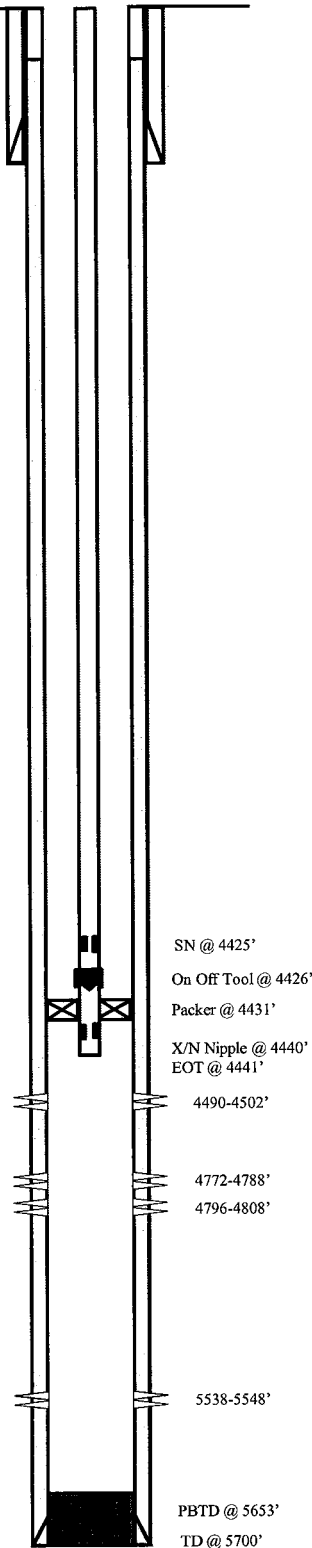
TOTAL STRING LENGTH: EOT @ 4441'

#### FRAC JOB

5/22/2009	5538-5548'	Frac CP5 sds as follows: 14,952# of 20/40 sand in 296 bbls of Lightning 17 fluid. Treated w/ ave pressure of 2493 psi @ ave rate of 26.8 BPM. ISIP 2248 psi.
5/22/2009	4772-4808'	Frac A1 sds as follows: 125,722#s of 20/40 sand in 898 bbls of Lightning 17 fluid. Treated w/ ave pressure of 1798 psi @ ave rate of 26.9 BPM. ISIP 2065 psi.
5/22/2009	4490-4502'	Frac C sds as follows: 46,703#s of 20/40 sand in 458 bbls of Lightning 17 fluid. Treated w/ ave pressure of 1861 psi @ ave rate of 26.9 BPM. ISIP 3554 psi.
9/25/09		Tubing Leak. Updated rod & tubing detail.
5/6/2010		Stuck plunger on pump. Updated rod and tubing detail.
5/25/2010		Stuck pump. Updated rod and tubing detail.
11/20/12		Convert to Injection Well
11/21/12		Conversion MIT Finalized - update tbg detail

#### PERFORATION RECORD

5/22/09	5538-5548'	4 JSPF	40 holes
5/22/09	4796-4808'	4 JSPF	48 holes
5/22/09	4772-4788'	4 JSPF	64 holes
5/22/09	4490-4502'	4 JSPF	48 holes



**NEWFIELD**



**Federal 1-27-9-16**

553' FNL & 503' FEL

NE/NE Section 27-T9S-R16E

Uintah Co, Utah

API # 43-013-33350; Lease # UTU-74392

## Federal 2-27-9-16

Spud Date: 12/16/2008  
Put on Production: 4/17/2009  
GL: 5863' KB: 5875'

## Wellbore Diagram

## FRAC JOB

4/9/2009 4945-4952' Frac LODC sds as follows:  
15,387#s of 20/40 sand in 295 bbls of Lightning 17 fluid. Treated  
w/ ave pressure of 2803 psi w/ ave rate of 24.4 BPM. ISIP 2884.

SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts (316.35')  
DEPTH LANDED: 326.35'  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 160 sxs Class 'G' cmt, circ 5 bbls to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 147 jts (5734.47')  
DEPTH LANDED: 5732.47'  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 280 sxs Premite II & 400 sx 50/50 POZ., circ. 10 bbls to surf.  
CEMENT TOP: 246' per CBL 4/7/09

TUBING (KS 5/31/12)

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
NO. OF JOINTS: 156 jts (4928.5')  
TUBING ANCHOR: 4940.5'  
NO. OF JOINTS: 1 jt (30.8')  
SEATING NIPPLE: 2-7/8" (1.10')  
SN LANDED AT: 4974.10'  
NO. OF JOINTS: 2 jts (62.2')  
TOTAL STRING LENGTH: EOT @ 5038'

SUCKER RODS (KS 5/31/12)

POLISHED ROD: 1-1/2" x 26' Polished Rod  
SUCKER RODS: 2', 4', 6' x 3/4" Pony Rods, 99 x 3/4" 4per Guided Rods, 72 x 3/4" Slick Rods, 20 x 3/4" 4per Guided Rods, 6 x 1-1/2" Sinker Bars, 6 x 1" Stabilizer Pony  
PUMP SIZE: 2-1/2" x 1-1/4" x 14' x 16' RHAC pump  
STROKE LENGTH: 86"  
PUMP SPEED, SPM: 3.9  
PUMPING UNIT: DARCO C-228-213-86

TOC @ 246'

SN @ 4974'

4532-4539'

4631-4636'

4658-4665'

4818-4832'

Anchor @ 4941'  
4945-4952'

EOT @ 5038'

PBTD @ 5695'

TD @ 5750'

PERFORATION RECORD

4/9/09	4945-4952'	4 JSPF	28 holes
4/9/09	4818-4832'	4 JSPF	56 holes
4/9/09	4631-4636'	4 JSPF	20 holes
4/9/09	4658-4665'	4 JSPF	28 holes
4/9/09	4532-4539'	4 JSPF	28 holes

**NEWFIELD****Federal 2-27-9-16**

612' FNL &amp; 2093' FEL

NW/NE Section 27-T9S-R16E

Uintah Co, Utah

API # 43-013-33351; Lease # UTU-74392

## UTD WALTON #26-3-9-16

Spud Date: 12/31/1995

PWOP: 07/30/1997

GL: 5825' KB: 5836'

## Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"

GRADE: J-55

WEIGHT: 24#

LENGTH: 6 jts. (293')

DEPTH LANDED: 303.0' KB

HOLE SIZE: 12-1/4"

CEMENT DATA: 165 sxs Class "G" cmt

PRODUCTION CASING

CSG SIZE: 5-1/2"

GRADE: J-55

WEIGHT: 15.5#

LENGTH: 150 jts. (5940')

HOLE SIZE: 7-7/8"

DEPTH LANDED: 5940' KB

CEMENT DATA: 220 sxs Class "G" &amp; 280 sxs RFC.

CEMENT TOP AT: 2215'

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#

NO. OF JOINTS: 177 jts.

TUBING ANCHOR: 5508' KB

NO. OF JOINTS: 8 jt.

SEATING NIPPLE: 2-7/8" (1.1')

SN LANDED AT: 5824' KB

NO. OF JOINTS: 1 jts.

NOTCHED COLLAR: 5856' KB

TOTAL STRING LENGTH: EOT @ 5654'

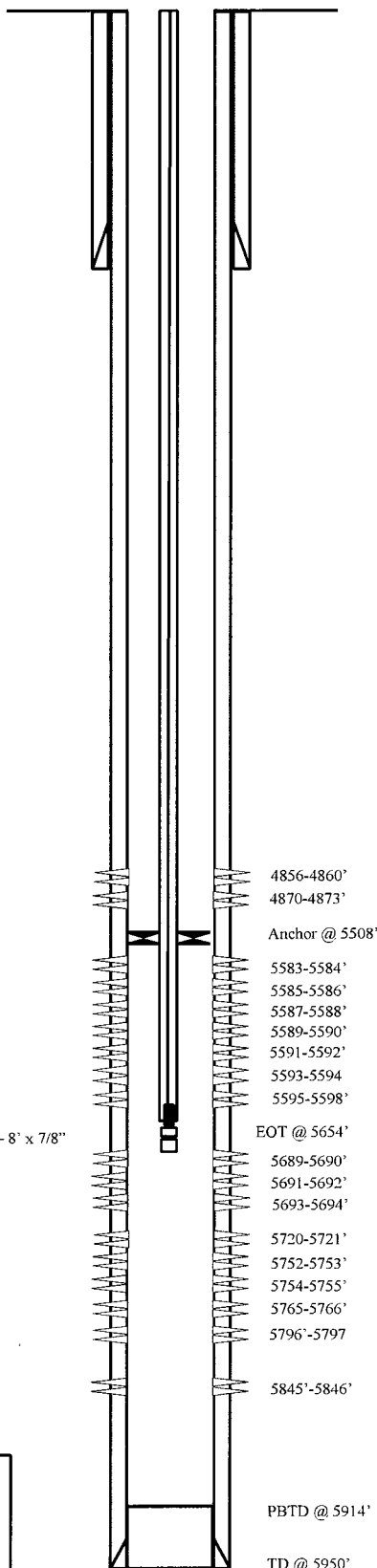
SUCKER RODS

POLISHED ROD: 1-1/2" x 30' Spray Metal Polished Rod

SUCKER RODS: 1 - 2' x 7/8" Pony Rod, 1 - 4' x 7/8" Pony Rod, 1 - 8' x 7/8"

Pony Rod, 77 - 7/8" Plain Rods, 155 - 3/4" Plain Rods,

PUMP SIZE: 2 1/2" x 1 1/4" x 16' RHAC

PERFORATION RECORD

4856-4860'	1 JSPF	1 holes
4870-4873'	1 JSPF	1 holes
5583-5584'	1 JSPF	1 holes
5585-5586'	1 JSPF	1 holes
5587-5588'	1 JSPF	1 holes
5589-5590'	1 JSPF	1 holes
5591-5592'	1 JSPF	1 holes
5593-5594'	1 JSPF	1 holes
5595-5598'	1 JSPF	1 holes
5689-5690'	1 JSPF	1 holes
5691-5692'	1 JSPF	1 holes
5693-5694'	1 JSPF	1 holes
5720-5721'	1 JSPF	1 holes
5752-5753'	1 JSPF	1 holes
5754-5755'	1 JSPF	1 holes
5765-5766'	1 JSPF	1 holes
5796-5797'	1 JSPF	1 holes
5845-5846'	1 JSPF	1 holes

**NEWFIELD****UTD WALTON 26-03-9-16**

705' FNL &amp; 1899' FWL (NE/NW)

Section 26, T9S, R16E

Duchesne County, Utah

API #43-013-31477; Lease # UTU-67844

## Multi-Chem Analytical Laboratory

1553 East Highway 40

Vernal, UT 84078

Units of Measurement: **Standard**

ATTACHMENT F

1 of 6

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A HALLIBURTON SERVICE

## Water Analysis Report

Production Company: **NEWFIELD PRODUCTION**Sales Rep: **Michael McBride**Well Name: **BELUGA INJECTION**Lab Tech: **Gary Peterson**Sample Point: **After Filters**Sample Date: **11/28/2012**Sample ID: **WA-228948**Scaling potential predicted using ScaleSoftPitzer from  
Brine Chemistry Consortium (Rice University)

Sample Specifics		Analysis @ Properties in Sample Specifics			
Test Date:	12/5/2012	Cations		Anions	
		mg/L		mg/L	
System Temperature 1 (°F):	120.00	Sodium (Na):	2814.83	Chloride (Cl):	4000.00
System Pressure 1 (psig):	60.0000	Potassium (K):	20.00	Sulfate (SO4):	460.00
System Temperature 2 (°F):	210.00	Magnesium (Mg):	47.00	Bicarbonate (HCO3):	512.00
System Pressure 2 (psig):	60.0000	Calcium (Ca):	79.00	Carbonate (CO3):	
Calculated Density (g/ml):	1.003	Strontium (Sr):		Acetic Acid (CH3COO)	
pH:	7.40	Barium (Ba):	0.14	Propionic Acid (C2H5COO)	
Calculated TDS (mg/L):	7933.86	Iron (Fe):	0.17	Butanoic Acid (C3H7COO)	
CO2 in Gas (%):		Zinc (Zn):	0.02	Isobutyric Acid ((CH3)2CHCOO)	
Dissolved CO2 (mg/L):	13.00	Lead (Pb):	0.00	Fluoride (F):	
H2S in Gas (%):		Ammonia NH3:		Bromine (Br):	
H2S in Water (mg/L):	7.00	Manganese (Mn):	0.70	Silica (SiO2):	

## Notes:

11:30

(PTB = Pounds per Thousand Barrels)

		Calcium Carbonate		Barium Sulfate		Iron Sulfide		Iron Carbonate		Gypsum CaSO4·2H2O		Celestite SrSO4		Halite NaCl		Zinc Sulfide	
Temp (°F)	PSI	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
210.00	60.00	0.96	36.46	0.00	0.00	1.15	0.09	0.30	0.06	0.00	0.00	0.00	0.00	0.00	0.00	7.08	0.01
200.00	60.00	0.89	33.50	0.00	0.00	1.11	0.09	0.22	0.05	0.00	0.00	0.00	0.00	0.00	0.00	7.13	0.01
190.00	60.00	0.81	30.53	0.00	0.00	1.06	0.08	0.15	0.04	0.00	0.00	0.00	0.00	0.00	0.00	7.19	0.01
180.00	60.00	0.73	27.58	0.00	0.00	1.03	0.08	0.07	0.02	0.00	0.00	0.00	0.00	0.00	0.00	7.25	0.01
170.00	60.00	0.66	24.68	0.02	0.00	0.99	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.32	0.01
160.00	60.00	0.59	21.85	0.05	0.01	0.97	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.40	0.01
150.00	60.00	0.52	19.12	0.08	0.01	0.95	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.48	0.01
140.00	60.00	0.45	16.50	0.12	0.02	0.93	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.57	0.01
130.00	60.00	0.39	14.02	0.17	0.03	0.93	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.67	0.01
120.00	60.00	0.33	11.69	0.23	0.04	0.93	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.79	0.01

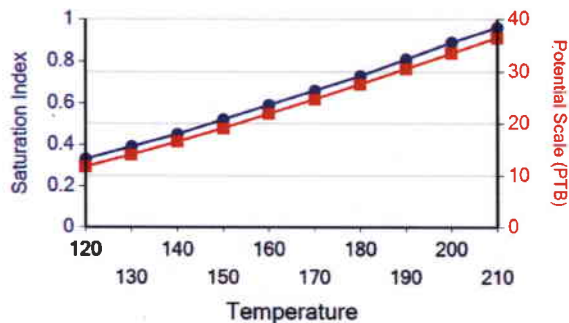
## Water Analysis Report

Temp (°F)	PSI	Hemihydrate CaSO <sub>4</sub> ·0.5H <sub>2</sub> O		Anhydrate CaSO <sub>4</sub>		Calcium Fluoride		Zinc Carbonate		Lead Sulfide		Mg Silicate		Ca Mg Silicate		Fe Silicate	
		SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
210.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
190.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

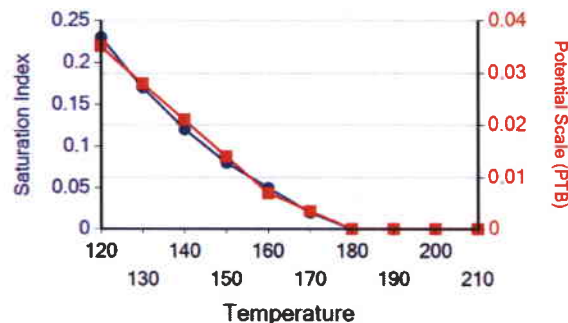
These scales have positive scaling potential under initial temperature and pressure: Calcium Carbonate Iron Sulfide Iron Carbonate Zinc Sulfide

These scales have positive scaling potential under final temperature and pressure: Calcium Carbonate Barium Sulfate Iron Sulfide Zinc Sulfide

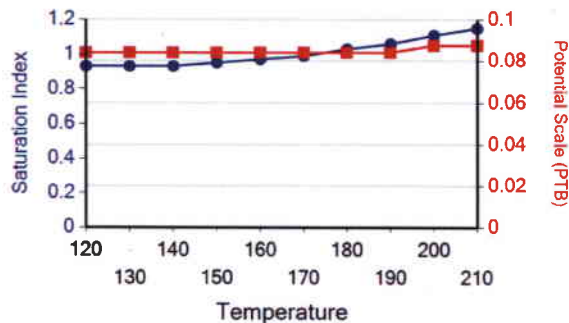
Calcium Carbonate



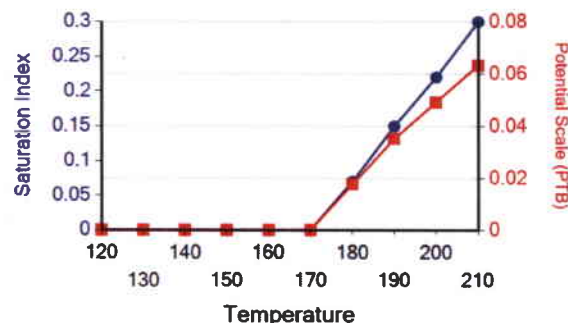
Barium Sulfate



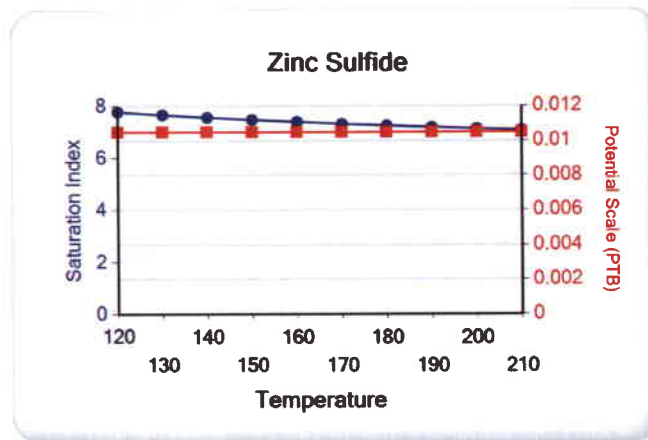
Iron Sulfide



Iron Carbonate



Water Analysis Report





## Multi-Chem Analytical Laboratory

1553 East Highway 40

Vernal, UT 84078

ATTACHMENT F

4 of 6

multi-chem<sup>®</sup>

A HALLIBURTON SERVICE

Units of Measurement: **Standard**

## Water Analysis Report

Production Company: **NEWFIELD PRODUCTION**Well Name: **FEDERAL 13-23-9-16**Sample Point: **Treater JII**Sample Date: **12/21/2012**Sample ID: **WA-230383**Sales Rep: **Michael McBride**Lab Tech: **Layne Wilkerson**Scaling potential predicted using ScaleSoftPitzer from  
Brine Chemistry Consortium (Rice University)

Sample Specifics		Analysis @ Properties in Sample Specifics			
		Cations		Anions	
		mg/L		mg/L	
Test Date:	12/28/2012	Sodium (Na):	7530.08	Chloride (Cl):	10000.00
System Temperature 1 (°F):	120.00	Potassium (K):	59.00	Sulfate (SO <sub>4</sub> ):	505.00
System Pressure 1 (psig):	60.0000	Magnesium (Mg):	18.00	Bicarbonate (HCO <sub>3</sub> ):	2440.00
System Temperature 2 (°F):	210.00	Calcium (Ca):	39.00	Carbonate (CO <sub>3</sub> ):	
System Pressure 2 (psig):	60.0000	Strontium (Sr):		Acetic Acid (CH <sub>3</sub> COO)	
Calculated Density (g/ml):	1.011	Barium (Ba):	0.80	Propionic Acid (C <sub>2</sub> H <sub>5</sub> COO)	
pH:	9.00	Iron (Fe):	2.00	Butanoic Acid (C <sub>3</sub> H <sub>7</sub> COO)	
Calculated TDS (mg/L):	20594.10	Zinc (Zn):	0.10	Isobutyric Acid ((CH <sub>3</sub> ) <sub>2</sub> CHCOO)	
CO <sub>2</sub> in Gas (%):		Lead (Pb):	0.02	Fluoride (F):	
Dissolved CO <sub>2</sub> (mg/L):	0.00	Ammonia NH <sub>3</sub> :		Bromine (Br):	
H <sub>2</sub> S in Gas (%):		Manganese (Mn):	0.10	Silica (SiO <sub>2</sub> ):	
H <sub>2</sub> S in Water (mg/L):	30.00				

## Notes:

(PTB = Pounds per Thousand Barrels)

		Calcium Carbonate		Barium Sulfate		Iron Sulfide		Iron Carbonate		Gypsum CaSO <sub>4</sub> 2H <sub>2</sub> O		Celestite SrSO <sub>4</sub>		Halite NaCl		Zinc Sulfide	
		SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
Temp (°F)	PSI																
210.00	60.00	2.30	33.93	0.33	0.25	3.99	1.10	3.00	1.45	0.00	0.00	0.00	0.00	0.00	0.00	9.43	0.05
200.00	60.00	2.26	33.91	0.34	0.26	3.99	1.10	2.96	1.45	0.00	0.00	0.00	0.00	0.00	0.00	9.52	0.05
190.00	60.00	2.22	33.89	0.37	0.27	3.99	1.10	2.92	1.45	0.00	0.00	0.00	0.00	0.00	0.00	9.62	0.05
180.00	60.00	2.18	33.87	0.39	0.28	3.99	1.10	2.88	1.45	0.00	0.00	0.00	0.00	0.00	0.00	9.73	0.05
170.00	60.00	2.14	33.84	0.42	0.29	4.00	1.10	2.84	1.45	0.00	0.00	0.00	0.00	0.00	0.00	9.84	0.05
160.00	60.00	2.10	33.81	0.46	0.31	4.02	1.10	2.79	1.45	0.00	0.00	0.00	0.00	0.00	0.00	9.96	0.05
150.00	60.00	2.07	33.78	0.50	0.32	4.04	1.10	2.75	1.45	0.00	0.00	0.00	0.00	0.00	0.00	10.08	0.05
140.00	60.00	2.04	33.76	0.54	0.34	4.07	1.10	2.70	1.45	0.00	0.00	0.00	0.00	0.00	0.00	10.22	0.05
130.00	60.00	2.01	33.73	0.59	0.35	4.10	1.10	2.65	1.45	0.00	0.00	0.00	0.00	0.00	0.00	10.36	0.05
120.00	60.00	1.98	33.70	0.65	0.37	4.15	1.10	2.60	1.45	0.00	0.00	0.00	0.00	0.00	0.00	10.51	0.05

		Hemihydrate CaSO <sub>4</sub> 0.5H <sub>2</sub> O		Anhydrate CaSO <sub>4</sub>		Calcium Fluoride		Zinc Carbonate		Lead Sulfide		Mg Silicate		Ca Mg Silicate		Fe Silicate	
		SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
Temp (°F)	PSI																
210.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	1.70	0.07	9.80	0.01	0.00	0.00	0.00	0.00	0.00	0.00
200.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	1.63	0.07	9.96	0.01	0.00	0.00	0.00	0.00	0.00	0.00
190.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	1.56	0.07	10.13	0.01	0.00	0.00	0.00	0.00	0.00	0.00
180.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	1.48	0.07	10.31	0.01	0.00	0.00	0.00	0.00	0.00	0.00
170.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	1.40	0.06	10.50	0.01	0.00	0.00	0.00	0.00	0.00	0.00
160.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	1.31	0.06	10.70	0.01	0.00	0.00	0.00	0.00	0.00	0.00
150.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	1.22	0.06	10.91	0.01	0.00	0.00	0.00	0.00	0.00	0.00
140.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	1.11	0.06	11.13	0.01	0.00	0.00	0.00	0.00	0.00	0.00
130.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	1.01	0.06	11.37	0.01	0.00	0.00	0.00	0.00	0.00	0.00
120.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.89	0.06	11.62	0.01	0.00	0.00	0.00	0.00	0.00	0.00

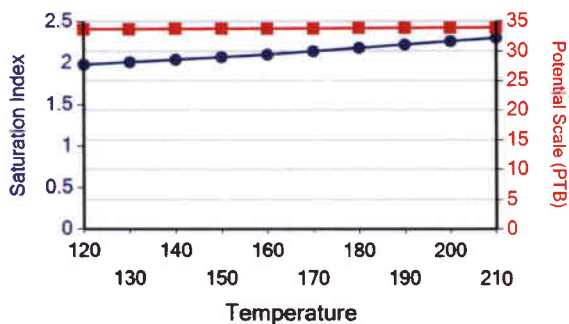


## Water Analysis Report

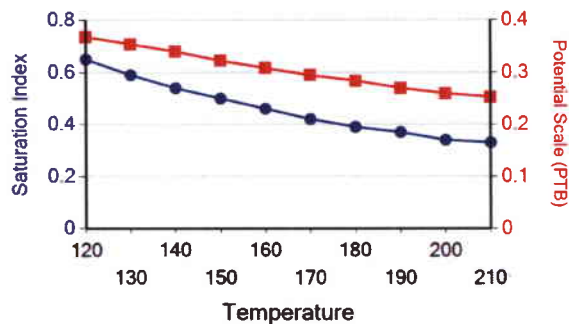
These scales have positive scaling potential under initial temperature and pressure: Calcium Carbonate Barium Sulfate Iron Sulfide Iron Carbonate Zinc Sulfide Zinc Carbonate Lead Sulfide

These scales have positive scaling potential under final temperature and pressure: Calcium Carbonate Barium Sulfate Iron Sulfide Iron Carbonate Zinc Sulfide Zinc Carbonate Lead Sulfide

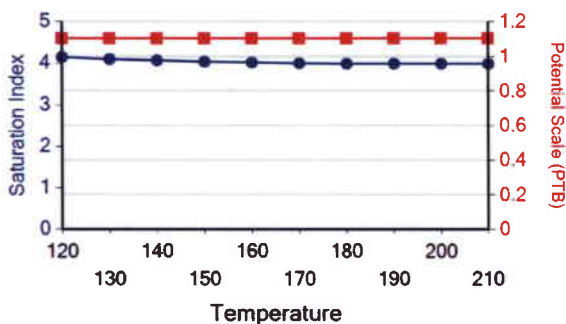
Calcium Carbonate



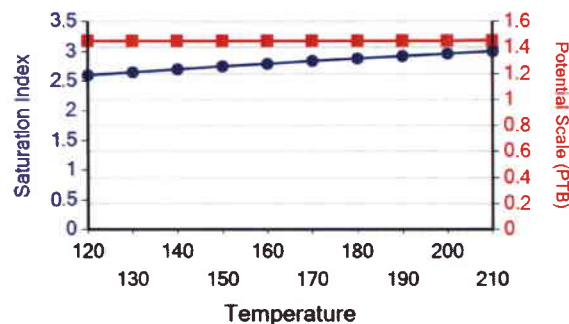
Barium Sulfate



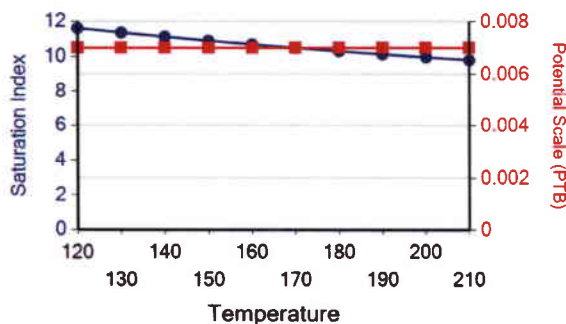
Iron Sulfide



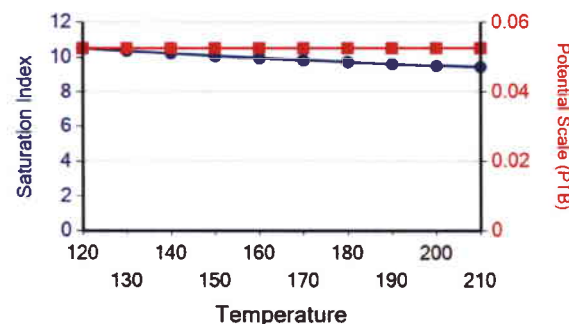
Iron Carbonate



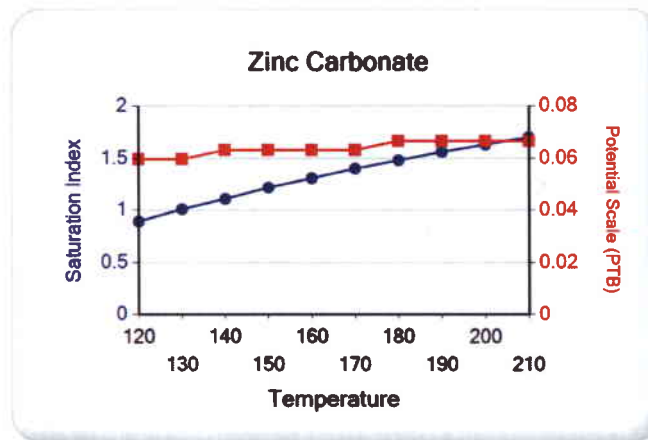
Lead Sulfide



Zinc Sulfide



Water Analysis Report



**Attachment "G"**

**Federal #13-23-9-16  
Proposed Maximum Injection Pressure**

Frac Interval (feet)		Avg. Depth (feet)	ISIP (psi)	Calculated Frac Gradient (psi/ft)	Pmax
Top	Bottom				
5532	5548	5540	2180	0.83	2144
4963	4972	4968	3045	1.05	3013
4798	4822	4810	1971	0.84	1940
4643	4600	4622	2135	0.89	2105
4874	4888	4881	1907	0.82	1875
				<b>Minimum</b>	<u><u>1875</u></u>

**Calculation of Maximum Surface Injection Pressure**

$P_{max} = (\text{Frac Grad} - (0.433 \times 1.015)) \times \text{Depth of Top Perf}$   
 where pressure gradient for the fresh water is .433 psi/ft and  
 specific gravity of the injected water is 1.015.

$$\text{Frac Gradient} = (\text{ISIP} + (0.433 \times \text{Top Perf.})) / \text{Top Perf.}$$

**Please note:** These are existing perforations; additional perforations may be added during the actual conversion procedure.

**Daily Activity Report**

Format For Sundry

**FEDERAL 13-23-9-16****8/1/2007 To 12/30/2007****10/23/2007 Day: 1****Completion**

Rigless on 10/22/2007 - Install 5M frac head. NU 6" 5M Cameron BOP. RU H/O truck & pressure test casing, blind rams, frac head & casing valves to 4500 psi. RU Perforators LLC WLT w/ mast & run CBL under pressure. WLTD @ 5628' & cement top @ 118'. Perforate stage #1. CP5 sds @ 5532- 48' w/ 3 1/8" slick guns (19 gram, .49" HE, 120°, 21.92" pen, EXP-3319-331 Titan) w/ 4 spf for total of 64 shots. 135 BWTR. SIFN.

**10/27/2007 Day: 2****Completion**

Rigless on 10/26/2007 - RU BJ Services "Ram Head" frac flange. RU BJ & frac CP5 sds, stage #1 down casing w/ 89,901#'s of 20/40 sand in 710 bbls of Lightning 17 frac fluid. Open well w/ 0 psi on casing. Perfs broke down @ 3325 psi. Pump 30 gals of Techna Hib. Treated @ ave pressure of 1990 @ ave rate of 24.8 bpm w/ 8 ppg of sand. Spot 12 bbls of 15% HCL acid in flush for next stage. ISIP was 2180. 845 bbls EWTR. Leave pressure on well. RU Perforators LLC WLT, crane & lubricator. RIH w/ Weatherford 5-1/2" (6K) composite flow through frac plug & 9' perf gun. Set plug @ 5070'. Perforate LODC sds @ 4963-72' w/ 3-1/8" Slick Guns (19 gram, .49" HE, 120° ) w/ 4 spf for total of 36 shots. RU BJ & frac stage #2 w/ 56,448#'s of 20/40 sand in 493 bbls of Lightning 17 frac fluid. Open well w/ 1705 psi on casing. Perfs broke down @ 3307 psi. Pump 30 gals of Techna Hib. Treated @ ave pressure of 2830 @ ave rate of 24.8 bpm w/ 8 ppg of sand. ISIP was 3045. 1338 bbls EWTR. RD BJ & WLT. Flow well back. Well flowed for 5 hours & died w/ 380 bbls rec'd. SIFN.

**10/31/2007 Day: 3****Completion**

Rigless on 10/30/2007 - MIRUSU. Open well w/ 300 psi on casing. RD Cameron BOP's & 5K frac head. Instal 3K production head & Schaefer BOP's. RU bit 4-3/4" Chomp-used & bit sub. Tally & pickup new J-55, 2-7/8", 6.5# tbg off racks. Tag plug @ 5070' w/ 160 jts. RU swivel, pump & tanks. Drig out plug #1. TIH w/tbg to leave EOT @ 5104'. SIFN.

**11/1/2007 Day: 4****Completion**

Western #2 on 10/31/2007 - Open well w/ 150 psi on casing. TIH w/ tbg to tag sand @ 5592'. RU pump/tanks. C/O to PBTD @ 5676'. LD 2 jts tbg. RU swab quipment. Made 9 runs to rec'd 92 bbls fluid. IFL was surface. FFL was 2500'. Last run showed trace of oil w/ no sand. RD swab. TIH w/ tbg to PBTD no new sand. TOOH w/ tbg. LD bit & bit sub. TIH w/ NC, 2 jts tbg, SN, 1 jt tbg, TA (new CDI w/ 45,000# shear), 174 jts tbg. RD BOP's. Set TA @ 5487' w/ 16,000#'s tension w/ SN @ 5521' & EOT @ 5586'. Flush tbg w/ 60bbls water. SIFN.

**11/2/2007 Day: 5****Completion**

Western #2 on 11/1/2007 - Open well w/ 150 psi on casing. Pickup & prime pump. TIH w/ 2-1/2" x 1-1/2" x 12' x 15.5' RHAC new CDI pump w/ 125"SL, 6- 1-1/2" weight rods, 20- 3/4" guided rods, 94- 3/4" slick rods, 100- 3/4" guided rods, 1-1/2" x 26' polish rod. Space pump. Test tbg & pump to 800 psi w/ pump unit. RDMOSU. POP @ 1PM w/ 86"SL @ 5 spm. Final Report.

## **ATTACHMENT H**

### **WORK PROCEDURE FOR PLUGGING AND ABANDONMENT**

1. Set CIBP @ 4456'
2. Plug #1 Set 100' plug on top of CIBP using 12 sx Class "G" cement
3. Plug #2 140' balance plug using 18 sx Class "G" cement 50' above Trona-Bird's Nest extending 50' below base of Mahogany Oil Shale
4. Plug #3 120' balance plug using 14sx Class "G" cement 60' above Uinta/Green River and extending 60' below
5. Plug #4 Pump 45 sx Class "G" cement down 5 ½" casing to 373'

The approximate cost to plug and abandon this well is \$42,000.

## Federal 13-23-9-16

Spud Date: 10/5/07  
 Put on Production: 6/5/08  
 GL: 5751' KB: 5763'

Proposed P & A  
Wellbore Diagram

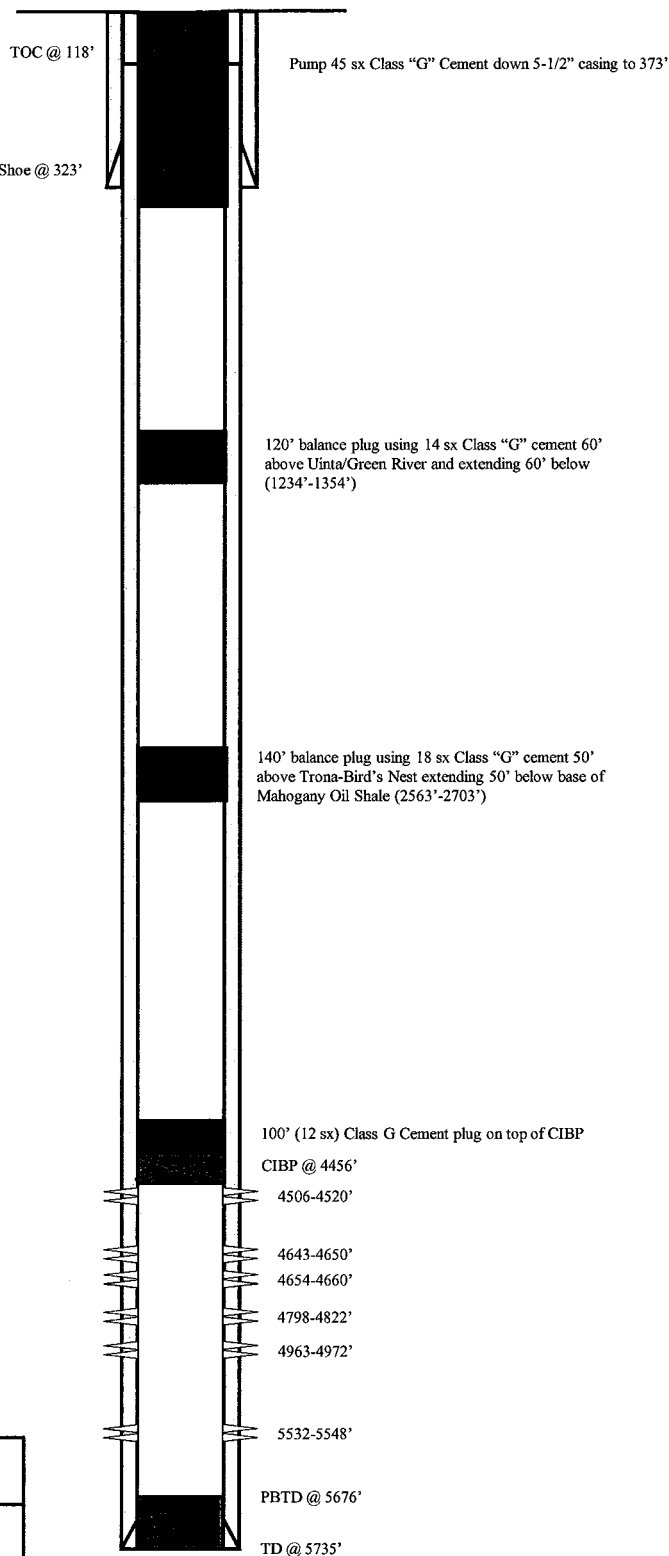
Initial Production: BOPD,  
 MCFD, BWPD

SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (312.58')  
 DEPTH LANDED: 322.58'  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sxs Class "G" cmt, circ. 4 bbls to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 150 jts. (5720.33')  
 DEPTH LANDED: 5718.33'  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 300 sxs Premlite II & 400 sxs 50/50 POZ.  
 CEMENT TOP: 118' per CBL 10/23/07

**NEWFIELD****Federal 13-23-9-16**

612' FSL &amp; 466' FWL

SW/SW Section 23-T9S-R16E

Duchesne Co, Utah

API #43-013-33180; Lease # UTU-74392

JL 1/7/2013

4770 S. 5600 W.  
P.O. BOX 704005  
WEST VALLEY CITY, UTAH 84170  
FED. TAX I.D.# 87-0217663  
801-204-6910

The Salt Lake Tribune

RECEIVED  
MELSPA Inc

FEB 20 2013

Deseret News

PROOF OF PUBLICATION

DIV. OF OIL, GAS & MINING

CUSTOMER'S COPY

CUSTOMER NAME AND ADDRESS	ACCOUNT NUMBER	DATE
DIV OF OIL-GAS & MINING,  1594 W NORTH TEMP #1210 P.O. BOX 145801 SALT LAKE CITY, UT 84114	9001402352	2/15/2013

BEFORE THE DIVISION OF OIL, GAS AND MINING  
DEPARTMENT OF NATURAL RESOURCES  
STATE OF UTAH  
NOTICE OF AGENCY ACTION  
CAUSE NO. UIC-404

IN THE MATTER OF THE APPLICATION OF NEWFIELD PRODUCTION COMPANY FOR ADMINISTRATIVE APPROVAL OF CERTAIN WELLS LOCATED IN SECTIONS 21, 22, 23, 25, 26, 28, AND 29, TOWNSHIP 9 SOUTH, RANGE 16 EAST, DUCHESSNE COUNTY, UTAH, AS CLASS II INJECTION WELLS.

THE STATE OF UTAH TO ALL PERSONS INTERESTED IN THE ABOVE ENTITLED MATTER.

Notice is hereby given that the Division of Oil, Gas and Mining (the "Division") is commencing an informal adjudicative proceeding to consider the application of Newfield Production Company, 1001 17th Street, Suite 2000, Denver, Colorado 80202, telephone 303-893-0102, for administrative approval of the following wells located in Duchesne County, Utah, for conversion to Class II injection wells:

Greater Monument Butte Units

Federal 15-21-9-16 well located in SW/4 SE/4, Section 21, Township 9 South, Range 16 East  
API 43-013-33164

Federal 9-22-9-16 well located in NE/4 SE/4, Section 22, Township 9 South, Range 16 East  
API 43-013-33175

Federal 13-23-9-16 well located in SW/4 SW/4, Section 23, Township 9 South, Range 16 East  
API 43-013-33180

Federal 1-25-9-16 well located in NE/4 NE/4, Section 25, Township 9 South, Range 16 East  
API 43-013-33553

UTD Walton 26-3 well located in NE/4 NW/4, Section 26, Township 9 South, Range 16 East  
API 43-013-31477

Federal 1-28-9-16 well located in NE/4 NE/4, Section 28, Township 9 South, Range 16 East  
API 43-013-33410

Federal 3-28-9-16 well located in NE/4 NW/4, Section 28, Township 9 South, Range 16 East  
API 43-013-33408

Federal 1-29-9-16 well located in NE/4 NE/4, Section 29, Township 9 South, Range 16 East  
API 43-013-33423

The proceeding will be conducted in accordance with Utah Admin. R649-10, Administrative Procedures.

Selected zones in the Green River Formation will be used for water injection. The maximum requested injection pressures and rates will be determined based on fracture gradient information submitted by Newfield Production Company.

Any person desiring to object to the application or otherwise intervene in the proceeding, must file a written protest or notice of intervention with the Division within fifteen days following publication of this notice. The Division's Presiding Officer for the proceeding is Brad Hill, Permitting Manager, at P.O. Box 145801, Salt Lake City, UT 84114-5801, phone number (801) 538-5340. If such a protest or notice of intervention is received, a hearing will be scheduled in accordance with the aforementioned administrative procedural rules. Protestants and/or interveners should be prepared to demonstrate at the hearing how this matter affects their interests.

Dated this 12th day of February, 2013.  
STATE OF UTAH

ACCOUNT NAME			
DIV OF OIL-GAS & MINING,			
TELEPHONE		ADORDER# / INVOICE NUMB	
8015385340		0000858313 /	
SCHEDULE			
Start 02/15/2013		End 02/15/2013	
CUST. REF. NO.			
Cause No. UIC-404			
CAPTION			
BEFORE THE DIVISION OF OIL, GAS AND MINING DEPARTMENT OF NATURAL R			
SIZE			
78 Lines		2.00	COLUMN
TIMES		RATE	
4			
MISC. CHARGES		AD CHARGES	
		TOTAL COST	
		267.08	

AFFIDAVIT OF PUBLICATION

AS NEWSPAPER AGENCY COMPANY, LLC dba MEDIAONE OF UTAH LEGAL BOOKER, I CERTIFY THAT THE ATTACHED ADVERTISEMENT OF **BEFORE THE DIVISION OF OIL, GAS AND MINING DEPARTMENT OF NATURAL RESOURCES STATE OF UTAH NOTICE OF AGENCY ACTION CAUSE NO. UIC-404 IN THE MATTER OF THE APPLICA** FOR **DIV OF OIL-GAS & MINING**, WAS PUBLISHED BY THE NEWSPAPER AGENCY COMPANY, LLC dba MEDIAONE OF UTAH, AGENT FOR THE SALT LAKE TRIBUNE AND DESERET NEWS, DAILY NEWSPAPERS PRINTED IN THE ENGLISH LANGUAGE WITH GENERAL CIRCULATION IN UTAH, AND PUBLISHED IN SALT LAKE CITY, SALT LAKE COUNTY IN THE STATE OF UTAH. NOTICE IS ALSO POSTED ON UTAHLEGALS.COM ON THE SAME DAY AS THE FIRST NEWSPAPER PUBLICATION DATE AND REMAINS ON UTAHLEGALS.COM INDEFINITELY.

PUBLISHED ON Start 02/15/2013

End 02/15/2013

SIGNATURE

2/15/2013

VIRGINIA CRAFT  
Notary Public, State of Utah  
Commission # 581469  
My Commission Expires  
January 12, 2014

THIS IS NOT A STATEMENT BUT A "PROOF OF PUBLICATION"  
PLEASE PAY FROM BILLING STATEMENT

Send Payments to:  
 Uintah Basin Standard  
 268 S 200 E  
 Roosevelt, Utah 84066

Phone: 435-722-5131  
 Fax: 435-722-4140



Invoice Number Invoice Date

41803

2/19/2013

Advertiser No.

Invoice Amount

Due Date

2080

\$133.85

3/21/2013

**RECEIVED**

**FEB 26 2013**

DIV OF OIL, GAS & MINING

DIVISION OF OIL GAS & MINING  
 Rose Nolton  
 1594 W. N. TEMPLE STE 121  
 PO BOX 145801  
 SALT LAKE CITY, UT 84114-5801

1 1/2% fee will be charged to all  
 past due balances.

**Amount Enclosed**

Please detach top portion and return with your payment

**INVOICE**

Uintah Basin Standard

DIVISION OF OIL GAS & MINING

Invoice No. 41803

2/19/2013

Date	Order	Description	Ad Size	SubTotal	Sales Tax	Amount
2/19/2013	20851 UBS	UBS Legal Notice: Notice of Agency Action - Cause No. UIC-404 Pub. Feb. 19, 2013				\$133.85
				Sub Total:		\$133.85
Total Transactions: 1				Total:		\$133.85

**SUMMARY**

Advertiser No.

2080

Invoice No.

41803

1 1/2% fee will be charged to all past due balances.

Thank You for your business!

Thank you for advertising with us, we appreciate your business!

2210/REB/6131



# AFFIDAVIT OF PUBLICATION

County of Duchesne,  
STATE OF UTAH

I, Kevin Ashby on oath, say that I am the PUBLISHER of the Uintah Basin Standard, a weekly newspaper of general circulation, published at Roosevelt, State and County aforesaid, and that a certain notice, a true copy of which is hereto attached, was published in the full issue such newspaper for 1 consecutive issues, and that the first publication was on the 19 day of February, 20 13, and that the last publication of such notice was in the issue of such newspaper dated the 19 day of February, 20 13, and that said notice was published on Utahlegals.com on the same day as the first newspaper publication and the notice remained on Utahlegals.com until the end of the scheduled run.

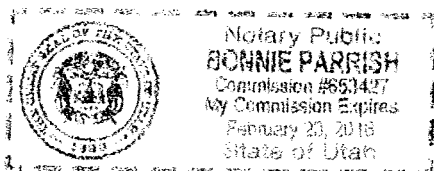
Kevin Ashby  
Publisher

Subscribed and sworn to before me on this

25 day of February, 20 13

by Kevin Ashby.

Bonnie Parrish  
Notary Public



## NOTICE OF AGENCY ACTION CAUSE NO. UIC-404

BEFORE THE DIVISION OF OIL, GAS AND MINING, DEPARTMENT OF NATURAL RESOURCES, STATE OF UTAH

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API 43-013-33164

Federal 9-22-9-16 well located in NE/4 SE/4, Section 22, Township 9 South, Range 16 East  
API 43-013-33175

Federal 13-23-9-16 well located in SW/4 SW/4, Section 23, Township 9 South, Range 16 East  
API 43-013-33180

Federal 1-25-9-16 well located in NE/4 NE/4 Section 25.

the aforementioned administrative procedural rules. Protestants and/or interveners should be prepared to demonstrate at the hearing how this matter affects their interests.

Dated this 12th day of February, 2013.

STATE OF UTAH  
DIVISION OF OIL,  
GAS & MINING  
Brad Hill  
Permitting Manager  
Published in the  
Uintah Basin Standard  
February 19, 2013.

API 43-013-33175

Federal 13-23-9-16 well located in SW/4 SW/4, Section 23, Township 9 South, Range 16 East

API 43-013-33180

Federal 1-25-9-16 well located in NE/4 NE/4, Section 25, Township 9 South, Range 16 East

API 43-013-33553

UTD Walton 26-3 well located in NE/4 NW/4, Section 26, Township 9 South, Range 16 East

API 43-013-31477

Federal 1-28-9-16 well located in NE/4 NE/4, Section 28, Township 9 South, Range 16 East

API 43-013-33410

Federal 3-28-9-16 well located in NE/4 NW/4, Section 28, Township 9 South, Range 16 East

API 43-013-33408

Federal 1-29-9-16 well located in NE/4 NE/4, Section 29, Township 9 South, Range 16 East

API 43-013-33423

The proceeding will be conducted in accordance with Utah Admin. R649-10, Administrative Procedures.

Selected zones in the Green River Formation will be used for water injection. The maximum requested injection pressures and rates will be determined based on fracture gradient information submitted by Newfield Production Company.

Any person desiring to object to the application or otherwise intervene in the proceeding, must file a written protest or notice of intervention with the Division within fifteen days following publication of this notice. The Division's Presiding Officer for the proceeding is Brad Hill, Permitting Manager, at P.O. Box 145801, Salt Lake City, UT 84114-5801, phone number (801) 538-5340. If such a protest or notice of intervention is received, a hearing will be scheduled in accordance with

BEFORE THE DIVISION OF OIL, GAS AND MINING  
DEPARTMENT OF NATURAL RESOURCES  
STATE OF UTAH  
NOTICE OF AGENCY ACTION  
CAUSE NO. UIC-404

IN THE MATTER OF THE APPLICATION OF NEWFIELD PRODUCTION COMPANY FOR ADMINISTRATIVE APPROVAL OF CERTAIN WELLS LOCATED IN SECTIONS 21, 22, 23, 25, 26, 28, AND 29, TOWNSHIP 9 SOUTH, RANGE 16 EAST, DUCHESNE COUNTY, UTAH, AS CLASS II INJECTION WELLS.

THE STATE OF UTAH TO ALL PERSONS INTERESTED IN THE ABOVE ENTITLED MATTER.

Notice is hereby given that the Division of Oil, Gas and Mining (the "Division") is commencing an informal adjudicative proceeding to consider the application of Newfield Production Company, 1001 17<sup>th</sup> Street, Suite 2000, Denver, Colorado 80202, telephone 303-893-0102, for administrative approval of the following wells located in Duchesne County, Utah, for conversion to Class II injection wells:

Greater Monument Butte Unit:

Federal 15-21-9-16 well located in SW/4 SE/4, Section 21, Township 9 South, Range 16 East  
API 43-013-33164  
Federal 9-22-9-16 well located in NE/4 SE/4, Section 22, Township 9 South, Range 16 East  
API 43-013-33175  
Federal 13-23-9-16 well located in SW/4 SW/4, Section 23, Township 9 South, Range 16 East  
API 43-013-33180  
Federal 1-25-9-16 well located in NE/4 NE/4, Section 25, Township 9 South, Range 16 East  
API 43-013-33553  
UTD Walton 26-3 well located in NE/4 NW/4, Section 26, Township 9 South, Range 16 East  
API 43-013-31477  
Federal 1-28-9-16 well located in NE/4 NE/4, Section 28, Township 9 South, Range 16 East  
API 43-013-33410  
Federal 3-28-9-16 well located in NE/4 NW/4, Section 28, Township 9 South, Range 16 East  
API 43-013-33408  
Federal 1-29-9-16 well located in NE/4 NE/4, Section 29, Township 9 South, Range 16 East  
API 43-013-33423

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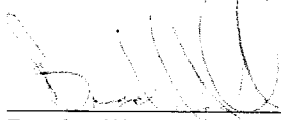
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notice of intervention is received, a hearing will be scheduled in accordance with the aforementioned administrative procedural rules. Protestants and/or interveners should be prepared to demonstrate at the hearing how this matter affects their interests.

Dated this 12th day of February, 2013.

STATE OF UTAH  
DIVISION OF OIL, GAS & MINING

A handwritten signature in dark ink, appearing to read "Brad Hill", is written over a horizontal line.

Brad Hill  
Permitting Manager

**Newfield Production Company**

**FEDERAL 15-21-9-16, FEDERAL 9-22-9-16, FEDERAL 13-23-9-16,  
FEDERAL 1-25-9-16, UTD WALTON 26-3, FEDERAL 1-28-9-16,  
FEDERAL 3-28-9-16, FEDERAL 1-29-9-16**

**Cause No. UIC-404**

Publication Notices were sent to the following:

Newfield Production Company  
1001 17th Street, Suite 2000  
Denver, CO 80202

Duchesne County Planning  
P O Box 317  
Duchesne, UT 84021-0317

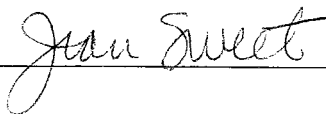
Uintah Basin Standard  
268 South 200 East  
Roosevelt, UT 84066  
via e-mail [legals@ubstandard.com](mailto:legals@ubstandard.com)

Bruce Suchomel  
US EPA Region 8  
MS 8P-W-GW  
1595 Wynkoop Street  
Denver, CO 80202-1129

Salt Lake Tribune  
P O Box 45838  
Salt Lake City, UT 84145  
via e-mail [naclegal@mediaoneutah.com](mailto:naclegal@mediaoneutah.com)

Newfield Production Company  
Rt 3 Box 3630  
Myton, UT 84052

Vernal Office  
Bureau of Land Management  
170 South 500 East  
Vernal, UT 84078

  
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GARY R. HERBERT  
Governor

GREGORY S. BELL  
Lieutenant Governor

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

### Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

February 12, 2013

Via e-mail: [legals@ubstandard.com](mailto:legals@ubstandard.com)

Uintah Basin Standard  
268 South 200 East  
Roosevelt, UT 84066

Subject: Notice of Agency Action – Newfield Production Company Cause No. UIC-404

To whom it may concern:

Enclosed is a copy of the referenced Notice of Agency Action. Please publish the Notice, once only, as soon as possible. Please notify me via e-mail of the date it will be published. My e-mail address is: [jsweet@utah.gov](mailto:jsweet@utah.gov).

Please send proof of publication and billing to:

Division of Oil, Gas and Mining  
PO Box 145801  
Salt Lake City, UT 84114-5801

Sincerely,

Jean Sweet  
Executive Secretary

Enclosure

2/14/13

State of Utah Mail - Proof for Notice



## Proof for Notice

**Stowe, Ken** <naclegal@mediaoneutah.com>

Tue, Feb 12, 2013 at 2:31 PM

Reply-To: "Stowe, Ken" <naclegal@mediaoneutah.com>

To: jsweet@utah.gov

AD# 858313

Run SL Trib & Des News 2/15

Cost \$267.08

Thank You



**OrderConf.pdf**

124K

## Order Confirmation for Ad #0000858313-01

<b>Client</b>	DIV OF OIL-GAS & MINING	<b>Payor Customer</b>	DIV OF OIL-GAS & MINING
<b>Client Phone</b>	801-538-5340	<b>Payor Phone</b>	801-538-5340
<b>Account#</b>	9001402352	<b>Payor Account</b>	9001402352
<b>Address</b>	1594 W NORTH TEMP #1210, P.O. BOX 145801 SALT LAKE CITY, UT 84114 USA	<b>Payor Address</b>	1594 W NORTH TEMP #1210, P.O. BOX SALT LAKE CITY, UT 84114

**Fax** 801-359-3940  
**Email** juliecarter@utah.gov

**Ordered By** Jean  
**Acct. Exec** kstowe

**Total Amount** \$267.08

**Payment Amt** \$0.00

<b>Amount Due</b>	\$267.08	<b>Tear Sheets</b>	0	<b>Proofs</b>	0	<b>Affidavits</b>	1
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**Payment Method** PO Number Cause No. UIC-404

**Confirmation Notes:**

**Text:** Jean

<b>Ad Type</b>	<b>Ad Size</b>	<b>Color</b>
Legal Liner	2.0 X 78 Li	<NONE>

<b>Product</b>	<b>Placement</b>	<b>Position</b>
Salt Lake Tribune::	Legal Liner Notice - 0998	Public Meeting/Hear-ing Notices
<b>Scheduled Date(s):</b>	2/15/2013	
<b>Product</b>	<b>Placement</b>	<b>Position</b>
Deseret News::	Legal Liner Notice - 0998	Public Meeting/Hear-ing Notices
<b>Scheduled Date(s):</b>	2/15/2013	
<b>Product</b>	<b>Placement</b>	<b>Position</b>
sltrib.com::	Legal Liner Notice - 0998	Public Meeting/Hear-ing Notices
<b>Scheduled Date(s):</b>	2/15/2013	
<b>Product</b>	<b>Placement</b>	<b>Position</b>
utahlegals.com::	utahlegals.com	utahlegals.com
<b>Scheduled Date(s):</b>	2/15/2013	

### Ad Content Proof Actual Size

BEFORE THE DIVISION OF OIL, GAS AND MINING  
DEPARTMENT OF NATURAL RESOURCES  
STATE OF UTAH  
NOTICE OF AGENCY ACTION  
CAUSE NO. UIC-404

IN THE MATTER OF THE APPLICATION OF NEWFIELD PRODUCTION COMPANY FOR ADMINISTRATIVE APPROVAL OF CERTAIN WELLS LOCATED IN SECTIONS 21, 22, 23, 25, 26, 28, AND 29, TOWNSHIP 9 SOUTH, RANGE 16 EAST, DUCHESS COUNTY, UTAH, AS CLASS II INJECTION WELLS.

THE STATE OF UTAH TO ALL PERSONS INTERESTED IN THE ABOVE ENTITLED MATTER.

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API 43-013-33190  
Federal 1-25-9-16 well located in NE 1/4 NE 1/4, Section 25, Township 9 South, Range 16 East  
API 43-013-33553  
UTD Walter 26-3 well located in NE 1/4 NW 1/4, Section 26, Township 9 South, Range 16 East  
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API 43-013-33410  
Federal 3-26-9-16 well located in NE 1/4 NW 1/4, Section 26, Township 9 South, Range 16 East  
API 43-013-33408  
Federal 1-29-9-16 well located in NE 1/4 NE 1/4, Section 29, Township 9 South, Range 16 East  
API 43-013-33422

The proceeding will be conducted in accordance with Utah Admin. R649-10, Administrative Procedures.

Selected zones in the Greer River Formation will be used for water injection. The maximum requested injection pressures and rates will be determined based on fracture gradient information submitted by Newfield Production Company.

Any person desiring to object to the application or otherwise intervene in the proceeding must file a written protest or notice of intervention with the Division within fifteen days following publication of this notice. The Division's Presiding Officer for the proceeding is Brad Hill, Permitting Manager, at P.O. Box 145801, Salt Lake City, UT 84114-5801, phone number (801) 538-5340. If such a protest or notice of intervention is received, a hearing will be scheduled in accordance with the aforementioned administrative procedural rules. Protestants and/or interveners should be prepared to demonstrate at the hearing how this matter affects their interests.

Dated this 12th day of February, 2013.

STATE OF UTAH  
DIVISION OF OIL, GAS & MINING

Brad Hill  
Permitting Manager  
858313

UPAXLP





GARY R. HERBERT  
Governor

GREGORY S. BELL  
Lieutenant Governor

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

### Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

February 12, 2013

VIA E-MAIL [naclegal@mediaoneutah.com](mailto:naclegal@mediaoneutah.com)

Salt Lake Tribune  
P. O. Box 45838  
Salt Lake City, UT 84145

Subject: Notice of Agency Action – Newfield Production Company Cause No. UIC-404

To whom it may concern:

Enclosed is a copy of the referenced Notice of Agency Action. Please publish the Notice, once only, as soon as possible. Please notify me via e-mail of the date it will be published. My e-mail address is: [jsweet@utah.gov](mailto:jsweet@utah.gov).

Please send proof of publication and billing for **account #9001402352** to:

Division of Oil, Gas and Mining  
PO Box 145801  
Salt Lake City, UT 84114-5801

Sincerely,

Jean Sweet  
Executive Secretary

Enclosure

2/14/13

State of Utah Mail - Re: Notice of Agency Action – Newfield Production Company Cause No. UIC-404



## Re: Notice of Agency Action – Newfield Production Company Cause No. UIC-404

Cindy Kleinfelter <classifieds@ubstandard.com>

Wed, Feb 13, 2013 at 1:59 PM

To: Jean Sweet <jsweet@utah.gov>

On 2/12/2013 2:22 PM, Jean Sweet wrote:

To whom it may concern:

Enclosed is a copy of the referenced Notice of Agency Action. Please publish the Notice, once only, as soon as possible. Please notify me via e-mail of the date it will be published. My e-mail address is: [jsweet@utah.gov](mailto:jsweet@utah.gov).

Please send proof of publication and billing to:

Division of Oil, Gas and Mining

PO Box 145801

Salt Lake City, UT 84114-5801

Sincerely,

--

Jean Sweet  
Executive Secretary  
Utah Division of Oil, Gas and Mining  
801-538-5329

Received. Thank you. It will run Feb. 19.

Cindy

**DIVISION OF OIL, GAS AND MINING  
UNDERGROUND INJECTION CONTROL PROGRAM  
PERMIT  
STATEMENT OF BASIS**

**Applicant:** Newfield Production Company      **Well:** Federal 13-23-9-16

**Location:** 23/9S/16E      **API:** 43-013-33180

**Ownership Issues:** The proposed well is located on BLM land. The well is located in the Greater Monument Butte Unit. Lands in the one-half mile radius of the well are administered by the BLM. The Federal Government is the mineral owner within the area of review (AOR). Newfield and other various individuals hold the leases in the unit. Newfield has provided a list of all surface, mineral and lease holders in the half-mile radius. Newfield is the operator of the Greater Monument Butte Unit. Newfield has submitted an affidavit stating that all owners and interest owners have been notified of their intent.

**Well Integrity:** The proposed well has surface casing set at 323 feet and has a cement top at the surface. A 5½ inch production casing is set at 5,718 feet. The cement bond log is somewhat problematic but appears to demonstrate adequate bond in this well up to about 2,826 feet. A 2 7/8 inch tubing with a packer is proposed to be set at 4,456 feet. Higher perforations will be opened at a later date. A mechanical integrity test will be run on the well prior to injection. There are 9 producing wells and 2 shut-in wells in the AOR. Four of the producing wells and one of the shut-in wells are currently in the process of being converted to injection wells. All of the wells have evidence of adequate casing and cement for the proposed injection interval.

**Ground Water Protection:** As interpreted from the Utah Geological Survey's DOE Project-Uinta Basin Water Draft Map (Paul B. Anderson, December 2, 2011), the base of moderately saline water (3000-10,000 mg/l TDS) is at a depth of approximately 2500 feet. Injection shall be limited to the interval between 3,682 feet and 5,673 feet in the Green River Formation. Information submitted by Newfield indicates that the fracture gradient for the 13-23-9-16 well is 0.82 psi/ft., which was the lowest reported fracture gradient for the injection zone. The resulting minimum fracture pressure for the proposed injection interval is 1,875 psig. The requested maximum pressure is 1,875 psig. The anticipated average injection pressure is 1100 psig. Injection at this pressure should not initiate any new fractures or propagate existing fractures in the adjacent confining intervals. Any ground water present should be adequately protected.

**Federal 13-23-9-16**

**page 2**

**Oil/Gas& Other Mineral Resources Protection:** The Board of Oil, Gas & Mining approved the Greater Monument Butte Unit on December 1, 2009. Correlative rights issues were addressed at this time. Previous reviews in this area indicate that other mineral resources in the area have been protected or are not at issue.

**Bonding:** Bonded with the BLM

**Actions Taken and Further Approvals Needed:** A notice of agency action has been sent to the Salt Lake Tribune and the Uinta Basin Standard. A casing/tubing pressure test will be required prior to injection. It is recommended that approval of this application be granted.

Note: Applicable technical publications concerning water resources in the general vicinity of this project have been reviewed and taken into consideration during the permit review process.

Reviewer(s): Mark Reinbold

Date: 2/6/2013



GARY R. HERBERT  
Governor

GREGORY S. BELL  
Lieutenant Governor

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

### Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

March 13, 2013

Newfield Production Company  
1001 Seventeenth Street, Suite 2000  
Denver, CO 80202

Subject: Greater Monument Butte Unit Well: Federal 13-23-9-16, Section 23, Township 9 South, Range 16 East, SLBM, Duchesne County, Utah, API Well # 43-013-33180

Gentlemen:

Pursuant to Utah Admin. Code R649-5-3-3, the Division of Oil, Gas and Mining (the "Division") issues its administrative approval for conversion of the referenced well to a Class II injection well. Accordingly, the following stipulations shall apply for full compliance with this approval:

1. Compliance with all applicable requirements for the operation, maintenance and reporting for Underground Injection Control ("UIC") Class II injection wells pursuant to Utah Admin. Code R649-1 et seq.
2. Conformance with all conditions and requirements of the complete application submitted by Newfield Production Company.
3. A casing/tubing pressure test shall be conducted prior to commencing injection.
4. Pressure shall be monitored between the surface casing and the production casing on a regular basis. Any pressure changes observed shall be reported to the Division immediately.
5. The top of the injection interval shall be limited to a depth no higher than 3,682 feet in the Federal 13-23-9-16 well.

A final approval to commence injection will be issued upon satisfactory completion of the listed stipulations. If you have any questions regarding this approval or the necessary requirements, please contact Mark Reinbold at 801-538-5333 or Brad Hill at 801-538-5315.

Sincerely,

John Rogers  
Associate Director

JR/MLR/js

cc: Bruce Suchomel, Environmental Protection Agency  
Bureau of Land Management, Vernal  
Duchesne County  
Newfield Production Company, Myton  
Well File

N:\O&G Reviewed Docs\ChronFile\UIC







GARY R. HERBERT  
Governor

SPENCER J. COX  
Lieutenant Governor

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

### Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

## UNDERGROUND INJECTION CONTROL PERMIT

Cause No. UIC-404

**Operator:** Newfield Production Company  
**Well:** Federal 13-23-9-16  
**Location:** Section 23, Township 9 South, Range 16 East  
**County:** Duchesne  
**API No.:** 43-013-33180  
**Well Type:** Enhanced Recovery (waterflood)

### Stipulations of Permit Approval

1. Approval for conversion to Injection Well issued on March 13, 2013.
2. Maximum Allowable Injection Pressure: 1,875 psig
3. Maximum Allowable Injection Rate: (restricted by pressure limitation)
4. Injection Interval: Green River Formation (3,682' – 5,673')
5. Any subsequent wells drilled within a ½ mile radius of this well shall have production casing cement brought up to or above the top of the unitized interval for the Greater Monument Butte Unit.

Approved by: Clinton L. Newcomb  
for John Rogers  
Associate Director

11/4/13  
Date

JR/MLR/js

cc: Bruce Suchomel, Environmental Protection Agency  
Bureau of Land Management, Vernal  
Jill Loyle, Newfield Production Company, Denver  
Newfield Production Company, Myton  
Duchesne County  
Well File

N:\O&G Reviewed Docs\ChronFile\UIC

